



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER19960001

Agency Interest No. 2425

David Oubre  
Environmental Superintendent – LA Operations  
Mosaic Fertilizer, LLC  
7250 Highway 44  
Uncle Sam, LA 70792

RE: Part 70 Operating Permit, Mosaic Fertilizer, LLC - Faustina Plant  
Mosaic Fertilizer, LLC, St James, St. James Parish, Louisiana

Dear Mr. Oubre:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

Permit No.: 2560-00021-V0

Sincerely,

Chuck Carr Brown Ph.D.

Assistant Secretary

CCB:KCW

c: EPA Region VI

**ENVIRONMENTAL SERVICES**

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**MOSAIC FERTILIZER, LLC**  
**FAUSTINA PLANT**  
**PROPOSED INITIAL PART 70 AIR OPERATING PERMIT**

The LDEQ, Office of Environmental Services, is accepting written comments on a Proposed Initial Part 70 Air Operating Permit for Mosaic Fertilizer, LLC, 7250 Highway 44, Uncle Sam, LA 70792 for the Faustina Plant. The facility is located at 9959 Highway 18 in St. James, St James Parish.

Mosaic Fertilizer, LLC owns and operates an agricultural chemical complex referred to as the Faustina Plant, located in St. James Parish near St. James, Louisiana. The Faustina plant produces phosphate fertilizers as the primary product and ammonia as an intermediate product. The complex also stores and transfers through its rail, truck, ship and barge facilities, phosphate fertilizers, sulfuric acid, phosphoric acid, ammonia, molten sulfur and prilled sulfur. The Faustina Plant currently operates under two separate permits: State Permit No. 2560-00021-02, issued October 16, 1996 and as amended on March 17, 2000 and August 22, 2003.

Mosaic Fertilizer, LLC requested an initial Part 70 Operating Permit for the Faustina Plant.

There are no modifications proposed for the Ammonia or Granulation Plant areas. The Urea Plant was shutdown in 1999. The Sodium and Potassium Silicofluoride Plants were permanently shut down in the mid 1990's. The proposed modification is to permanently shut down the sulfuric acid trains. The proposed modification is to permanently shut down the phosphoric acid train. Some auxiliary equipment will continue to be used and is described under a new area called Utilities. The equipment associated with the area called Utilities has always existed, but were associated with different areas that will no longer be considered operating areas. They are administratively being grouped in the newly designated area called Utilities.

There is a significant increase in emissions of methanol. However, Methanol is a Class III TAP only and MACT is not required and the emissions are less than the Louisiana Toxic Air-Pollutant Ambient Air Quality Standard.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	922.85	469.60	-453.85
SO <sub>2</sub>	3,432.02	7.57	-3,424.45
NO <sub>X</sub>	915.70	893.05	-22.65
CO	484.69	514.50	+29.81
VOC *	221.93	170.70	-51.23
<u>*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):</u>	39.89	139.65	+99.76
<u>*Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):</u>	5,781.10	1,780.97	-4,000.13

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Monday, June 12, 2006.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application, proposed permit, statement of basis and additional information are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). Additional copies may be reviewed at the St. James Parish Library, West St. James Branch, 2593 Highway 20, Vacherie, LA 70090.

Inquiries or requests for additional information regarding this permit action should be directed to Kermit C. Wittenburg, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3110.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [maillistrequest@ldeq.org](mailto:maillistrequest@ldeq.org) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit and statement of basis** can be viewed at the LDEQ permits public notice webpage at [www.deq.state.la.us/news/PubNotice/](http://www.deq.state.la.us/news/PubNotice/) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabcid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabcid/2198/Default.aspx).

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [http://www.state.la.us/ldbc/listservpage/ldeq\\_pn\\_listserv.htm](http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm).

**All correspondence should specify AI Number 2425, Permit Number 2560-00021-V0, and Activity Number PER19960001.**

**Publication dates:** May 8, 2006 in The Advocate  
May 10, 2006 in The Enterprise

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Faustina Plant**  
**Agency Interest No.: 2425**  
**Mosaic Fertilizer, LLC**  
**St James, St. James Parish, Louisiana**

**I. Background**

IMC-Agrico Company (IMC-Agrico), formerly Agrico Chemical Company, started operating a large chemical complex referred to as the Faustina Plant near Donaldsonville, Louisiana. The facility, which was built in 1968, produces ammoniated fertilizers as its main product. The facility was issued Permit No. 146 on March 8, 1973 authorizing two new sulfuric acid trains. Permit No. 154 was issued August 23, 1973 authorizing the removal of the Urea prilling tower and replacing that unit with two granulation units. Permit No. 198 was issued on August 23, 1973 allowing the construction of a new phosphoric acid train. The "C" Diamonium Phosphate (DAP) train was authorized under Permit No. 199 issued August 23, 1973. Permit No. 267 was issued on February 28, 1974 to install a condensate stripper to the existing Ammonia Reformer. The stripper removed ammonia and methanol from water discharges and vented them from an existing stack. A baghouse filter installation on a Lime Silo was authorized by Permit No. 396 issued December 17, 1974. A third Utility Boiler was approved by Permit No. 397, issued on December 17, 1974. Permit No. 425, issued on April 8, 1975 authorized the construction of a new Potassium Silicofluoride Plant, while Permit No. 424, issued that same day was for a new Sodium Silicofluoride Plant. Permit 1434T was issued on September 16, 1980, which allowed the facility to modify the operations of the "C" DAP train to significantly lower ammonia emissions with only a slight increase in fluoride emissions. Also included are facilities for loading and/or unloading raw materials and products by truck, rail and river transportation and miscellaneous tanks in all operating areas. The facility was issued a consolidated state permit on July 31, 1996 under Permit No. 2560-00021-01. Prevention of Significant Determination, (PSD) PSD Permit No. PSD-LA-602 was issued on July 30, 1996 for the installation of Boiler No. 2. The Urea plant was removed from Permit No. 2560-00021-01 and permitted separately under Permit No. 154(M-1) pending its sale. The sale of the facility was never finalized and that permit was rescinded on March 17, 2000. The facility is currently operating under Permit No. 2560-00021-02, issued on October 16, 1996 and as amended on March 17, 2000 and August 22, 2003.

The facility received an ownership change on June 30, 2005 from IMC Phosphates Company to Mosaic Phosphates Company, which was later changed to Mosaic Fertilizer, LLC on November 14, 2005.

This is the Part 70 operating permit for the facility.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by IMC-Agrico Company on October 12, 1996 requesting a Part 70 operating permit. Additional information dated January 11, 1999, July 15, 1999, June 14, 2002, August 2, 2003, and January 23, 2004 was

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also received. A complete permit reconciliation application was submitted on October 19, 2005, which supersedes all previous submittals. Revised information dated April 26, 2006 was received.

**III. Description**

Mosaic Fertilizer, LLC's Faustina Plant consists of an ammonia plant, two sulfuric acid plants, one phosphoric acid plant, and three units in the granulation plant. A urea plant was shut down in 1999, and a uranium recovery plant was permanently shut down in 1998. The Sodium and Potassium Silicofluoride Plants have not operated since the mid 1990's. Descriptions of the individual processes are provided below:

**AMMONIA PLANT**

The Ammonia Plant is capable of producing up to 1750 tons of ammonia per day. Ammonia is produced by the catalytic reaction of natural gas, steam, and air. In the primary reformer, natural gas and steam are heated to 1500 ° F to produce hydrogen. Air is added to the stream in the secondary reformer to provide nitrogen for the later synthesis of ammonia. Reformer gases, which also contain carbon dioxide and carbon monoxide produced in the primary reformer, are passed to a shift converter to remove these impurities. Carbon monoxide is removed by reaction with steam to produce carbon dioxide. The stream then passes to an absorber system that removes the bulk of the carbon dioxide in the stream. The remaining carbon dioxide was used by the Urea Plant, but is now vented with the remaining trace amounts of carbon dioxide and carbon monoxide impurities in the stream removed in the methanator. Purified hydrogen/nitrogen stream is then sent to a converter where ammonia is produced under high pressure. Product is condensed to the liquid phase and sent to the Granulation Plant, or to storage.

There are no modifications proposed for this area.

**GRANULATION PLANT**

The Granulation Plant reacts ammonia with phosphoric acid to produce either solid diammonium phosphate (DAP) or monammonium phosphate (MAP). This plant, consisting of Trains A, B, and C, has the capacity to produce 7,824 tons per day (TPD) of DAP and 8,184 TPD of MAP. Ammonia and phosphoric acid are reacted to about 70% completion in a preneutralizer. Resultant slurry is pumped to the granulator where additional ammonia is sparged into the rolling drum. The remaining 30% of the reaction takes place in the drums to form granular particles of DAP or MAP. The final product is conveyed and stored in two warehouses, then transferred to railcars, trucks, barges, & ships.

There are no modifications proposed for this area.

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**UREA PLANT**

The Urea Plant was shut down in 1999.

**SODIUM AND POTASSIUM SILICOFLUORIDE PLANTS**

The Sodium and Potassium Silicofluoride Plants were permanently shut down in the mid 1990's.

**SULFURIC ACID PLANTS**

Plants 10 and 11 are double absorption plants each capable of producing 2,500 tons per day of sulfuric acid (as 100% H<sub>2</sub>SO<sub>4</sub>). Each plant manufactures sulfuric acid by the contact process. In the contact process, molten elemental sulfur is fed into a combustion chamber and burned in clean, dry air. Gases from the combustion chamber are cooled and routed to the solid catalyst converter. Sulfur dioxide formed in the combustion chamber is converted to sulfur trioxide in an exothermic reaction. After cooling, the converter exit gas enters an absorption tower where sulfur trioxide is absorbed into sulfuric acid and combined with water to form additional H<sub>2</sub>SO<sub>4</sub>. Sulfuric acid produced in these plants is used as raw material for the production of phosphoric acid.

The proposed modification is to permanently shut down the sulfuric acid trains. Some auxiliary equipment will continue to be used and is described under a new area called Utilities.

**PHOSPHORIC ACID PLANT**

Phosphoric acid is produced in one unit at the Faustina Plant. The system utilizes the wet process method of phosphoric acid production. Finely ground phosphate rock is decomposed in a reactor in the presence of sulfuric acid. The reaction slurry is filtered, producing a nominal 30% acid solution. This solution is concentrated to 54% through evaporation. The phosphoric acid product is sent to the Granulation Plant.

The proposed modification is to permanently shutdown the phosphoric acid train.

**UTILITIES AREA**

The Utilities Area includes maintenance and support activities and a variety of material handling activities. Molten sulfur is received via truck, rail, barge or ship and is transferred via pit or directly into sulfur storage tanks that feed the separate and adjacent Gulf Sulphur Services, Ltd., LLP, Faustina Prill Facility. Sulfuric acid is stored in two sulfuric acid tanks and transferred via railcar. Lime is stored and used for water treatment. The gypsum stack and ponds are included in the utilities area. The gypsum stack is currently classified as an active stack due to continued water management

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operations, with almost half the acres classified as inactive. The Faustina plant operations also include several portable diesel-fired pieces of equipment, fuel storage and emergency diesel -fired engines.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	922.85	469.60	-453.85
SO <sub>2</sub>	3,432.02	7.57	-3,424.45
NO <sub>x</sub>	915.70	893.05	-22.65
CO	484.69	514.50	+29.81
VOC *	221.93	170.70	-51.23
Ammonia	5,350.90	1679.08	-3,671.82
Chlorine	0.16	0.11	-0.05
Hydrochloric Acid	0.26	-	-0.26
Hydrofluoric Acid (HF)	8.34	0.43	-7.91
Hydrogen Sulfide	14.15	10.05	-4.10
Phosphoric Acid	0.96	0.022	-0.938
Sulfur Trioxide	7.27	-	-7.27
Sulfuric Acid	137.06	0.004	-137.056
Total Fluorides	262.00	91.27	-170.73

**\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Benzene	Not Reported	0.009	+0.009
Dichlorobenzene	Not Reported	0.005	+0.005
Formaldehyde	0.43	0.32	-0.11
Methanol	39.46	139.30	+99.84
Toluene	Not Reported	0.015	+0.015

Other VOC (TPY): 31.05

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**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, National Emission Standards for Hazardous Air Pollutants (NESHAP) Prevention of Significant Deterioration (PSD) and New Source Performance Standards (NSPS).

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. Formaldehyde, ammonia, hydrogen fluoride, hydrogen sulfide, chlorine, and methanol emissions are above their respective minimum emission rates (MER). A Maximum Achievable Control Technology (MACT) review was performed for formaldehyde for the previous permit emission rate. Air dispersion modeling indicates the impact on air quality will be below the Ambient Air Standards (AAS), which includes the increase in methanol emissions. The Compliance Plan was approved on March 20, 1995, and modified on November 20, 1995.

No emission increases are above the PSD significance level.

The increase of methanol is from one source. The previous permit from 1996 included operations from the Urea Plant. A significant portion of the carbon dioxide stream from ammonia plant was consumed by the urea plant. As such, only the portion not routed to the urea plant and released from the stack was reported as an emission. When the urea plant was permanently shut down, the full stack stream from the ammonia plant was released to the atmosphere. The increase reflects that emission.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2006; in the *The Enterprise*, Vacherie, on <date>, 2006 and in the *The Donaldson Chief*, Donaldson, on <date>, 2006. A copy of the public notice was mailed to concerned citizens

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listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Dispersion Model(s) Used: ISCLT3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
PM <sub>10</sub>	Annual	22.9 µg/m <sup>3</sup>	(50 µg/m <sup>3</sup> )
	24 hr. avg.	143.3 µg/m <sup>3</sup>	(150 µg/m <sup>3</sup> )
Formaldehyde	Annual	1.2 µg/m <sup>3</sup>	7.69 µg/m <sup>3</sup>
Hydrogen fluoride	8-hour avg.	57.9 µg/m <sup>3</sup>	61.9 µg/m <sup>3</sup>
Sulfuric Acid	8-hour avg.	4.1 µg/m <sup>3</sup>	23.8 µg/m <sup>3</sup>
Hydrogen Sulfide	8-hour avg.	7.7 µg/m <sup>3</sup>	330 µg/m <sup>3</sup>
Methanol	8-hour avg.	45.8 µg/m <sup>3</sup>	6240 µg/m <sup>3</sup>

**VIII. General Condition XVII Activities**

Work Activity	Schedule	Emission Rates – lbs/yr				
		PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC
A-GC-1 Hot Products Pumps Clearing	As needed			5.97		23.87
A-GC-2 Cold Products Pumps Clearing	As needed			8.95		35.81
A-GC-3 Zinc Oxide Chamber Clearing	As needed				73.34	1239.58
A-GC-4 LTS or LTSG Clearing	As needed			858.13	130.41	1165.44
A-GC-5 Natural Gas Piping & Metering Skid Clearing	As needed				22.42	1159.36
A-GC-6 Ammonia Barge Line Clearing	As needed			1.55		6.2
A-GC-7 Refrigeration System Clearing	As needed			0.53		2.14

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**IX. Insignificant Activities**

ID No.:	Description	Citation
	Water Treatment SPC 670 Tote	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	H <sub>2</sub> SO <sub>4</sub> Boiler Unit 10 BPB 59316 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	H <sub>2</sub> SO <sub>4</sub> Boiler Unit 11 BPB 59316 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	Ammonia Boiler Unit BPB 59316 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	Ammonia Boiler Unit BPB 59465 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	Utility Cooling Tower BPC 67015 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	Utility Clarifier No. 2 BPC 67015 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	H <sub>2</sub> SO <sub>4</sub> Cooling Tower BPC 67015 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	Utility Cooling Tower BPC 68945 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	H <sub>2</sub> SO <sub>4</sub> Cooling Tower BPW 75654 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	H <sub>2</sub> SO <sub>4</sub> Boiler Unit 10 BPW 75654 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	H <sub>2</sub> SO <sub>4</sub> Boiler Unit 11 BPW 75654 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	Utility Clarifier No. 1 BPW 75890 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	Utility Clarifier No. 2 BPW 75890 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	Utility Clarifier No. 1 BPW 76453 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	Utility Clarifier No. 2 BPW 76453 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	Utility Cooling Tower DMT 480 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
	H <sub>2</sub> SO <sub>4</sub> Boiler Unit 10 BPB 59496 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.

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H <sub>2</sub> SO <sub>4</sub> Boiler Unit 11 BPB 59496 Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
Natural Gas Odorizer # 1	Insignificant Activity per LAC 33:III.501.B.5.B.29.
Natural Gas Odorizer # 2	Insignificant Activity per LAC 33:III.501.B.5.B.29.
Ammonia Plant Caustic Storage Tank	Insignificant Activity per LAC 33:III.501.B.5.B.40.
Utilities Caustic Storage Tank # 1	Insignificant Activity per LAC 33:III.501.B.5.B.40.
Utilities Caustic Storage Tank # 2	Insignificant Activity per LAC 33:III.501.B.5.B.40.
G-IA-1 Defoamer Tank	Insignificant Activity per LAC 33:III.501.B.5.B.8.
Lime Slurry Tank	Insignificant Activity per LAC 33:III.501.B.5.B.27.
First Stage Lime Reactor CaCO <sub>3</sub> Tank	Insignificant Activity per LAC 33:III.501.B.5.B.27.
Second Stage Lime Reactor Tank	Insignificant Activity per LAC 33:III.501.B.5.B.27.
Lime Treatment Clarifier 29A	Insignificant Activity per LAC 33:III.501.B.5.B.27.
Lime Treatment Clarifier 29B	Insignificant Activity per LAC 33:III.501.B.5.B.27.
Lime Slurry Recovery Tank (HSA Tank)	Insignificant Activity per LAC 33:III.501.B.5.B.27.
Barge Loading Lime Surge Tank	Insignificant Activity per LAC 33:III.501.B.5.B.27.
Condensate Tank in Sulfuric Acid Area	Insignificant Activity per LAC 33:III.501.B.5.C.1.

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No:	Description	LAC 33:III.Chapter																
		5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	2305	22	29*	51*	53	56
GRP 25	Plant Wide		1	1	1						1			2	1	1	1	1
ARE 7	G-BDOCK - Barge Loading Dock					1												
ARE 8	G-SDOCK - Ship Loading Dock					1												1
ARE 10	UT-4C - Sulfur Pit						1											
ARE 14	G-H2SO4RR - H2SO4 Railcar Loading Area																	1
ARE 19	G-RAILCAR - Railcar Loading Area - MAP, DAP																	1
ARE 20	G-TSCALE - Truck Scale Loading					1												
ARE 24	G-OLDWARE - Old Warehouse					1												
ARE 25	G-NEW WARE - New Warehouse					1												
ARE 26	UT-5 - Cooling Ponds/Gypsum Stacks																	1
EQT 4	A-1 - Ammonia Plant Primary Reformer					1	1	1										2
EQT 5	A-2 - Ammonia Tank Flare					1	1											
EQT 6	UT-1 - Bulk Gasoline Storage Tank											1						
EQT 7	A-4 - Ammonia Plant Startup Heater																	
EQT 8	G-A COOLER - Granulation A Train Cooler Scrubber																	1
EQT 9	G-B COOLER - Granulation B Train Cooler Scrubber																	1
EQT 10	A-7 - Hydrate Lime Silo #1																	1
EQT 11	UT-2 - Backup Water Treatment Lime Silo																	1

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 Mosaic Fertilizer, LLC  
 St James, St. James Parish, Louisiana

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter															
		5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	2305	22	29*	51*	53
EQT 18	UT-4A - Sulfur Storage Tank A-5-1																
EQT 19	UT-4B - Sulfur Storage Tank A-5-2																
	UT-3 - 1st and 2nd Stage Water Treatment																1
EQT 22	Lime Silo																
EQT 41	UT-6 - Sulfuric Acid Tank T-AG-1																1
EQT 42	UT-7 - Sulfuric Acid Tank T-AG-2																1
EQT 43	A-8 - Hydrate Lime Silo #2																
EQT 61	G-COT - Oil Tank 2-A, C Train																
EQT 69	UT-8 - Gypsum Pond Shop Gasoline Tank																1
EQT 77	G-ACID N - N. Phos Acid Storage																1
EQT 78	G-ACID S - S. Phos Acid Storage																1
EQT 79	G-ACID E - E. Phos Acid Storage																1
EQT 80	G-ACID W - W. Phos Acid Storage																1
EQT 83	AUT-1 - Utility Boiler #2																
	G-AFUME - Granulation A Train Fumes																1
EQT 95	Scrubber																
EQT 96	G-BFUME - Granulation B Train Fumes																1
EQT 97	G-ATAIL - Granulation A Train Tail Gas																1
EQT 98	G-BTAIL - Granulation B Train Tail Gas																1

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Faustina Plant**  
 Agency Interest No.: 2425  
 Mosaic Fertilizer, LLC  
 St James, St. James Parish, Louisiana

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.C Chapter															
		5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	2305	22	29*	51*	53
EQT 99	G-CTAIL - Granulation C Train Tail Gas Scrubber	1															1
RLP 2	A-3 - Carbon Dioxide Regeneration Vent																1
FUG 8	G-FUG - Granulation Plant Fugitives																1
FUG 9	A-6 - Ammonia Plant Fugitives																1
FUG 11	U-FUG-1 - Utility Plant Fugitives																1
EQT 102	A-5 - Ammonia Plant Cooling Tower																1
EQT 103	A-10 - Sour Oil Degasifier 105J																1
EQT 104	A-11 - Ammonia Plant Sulfuric Acid Storage Tank																1
EQT 105	A-12 - Utilities Sulfuric Acid Storage Tank																1
EQT 106	A-13 - Amines Solution Storage Tank																1
EQT 107	A-9 - Sour Oil Degasifier 103J																1
EQT 108	G-A1STSTG - Granulation A 1st Stage Scrubber																1
EQT 109	G-ACID C - C-54 Acid Storage Tank																1
EQT 110	G-ACID F - FURC Acid Storage Tank																1
EQT 111	G-ADRYER - Granulation A Dryer Scrubber	1															1
EQT 112	G-ADUST - Granulation A Dust Scrubber	1															1
EQT 113	G-B1STSTG - Granulation B 1st Stage Scrubber	1															1

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

Faustina Plant  
 Agency Interest No.: 2425  
 Mosaic Fertilizer, LLC  
 St James, St. James Parish, Louisiana

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No:	Description	LAC 33:III.Chapter																	
		5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	2305	22	29*	51*	53	56	59
EQT 114	G-BDRYER - Granulation B Dryer Scrubber	1																	1
EQT 115	G-BDUST - Granulation B Dust Scrubber	1																	
EQT 116	G-CCOOLER - Granulation C Train Cooler Scrubber	1																	
EQT 117	G-CDRYER - Granulation C Dryer Scrubber	1																	
EQT 118	G-CONVEYOR - Conveyor System Transfer Points																		
EQT 119	G-CREACTN Scrubber	1																	
EQT 120	G-CRG - Granulation C RG Scrubber	1																	
EQT 121	G-HOLDTK1 Holding Tank No. 1																		1
EQT 122	G-HOLDTK2 Holding Tank No. 2																		1
EQT 123	UT-10 - Utilities Emergency Generator																		
EQT 124	UT-11 - Utilities Emergency Air Compressor																		
EQT 125	UT-12 - Utilities Emergency Fire Pump																		
GRP 20	UT-4 - Sulfur Handling Facility CAP	1																	
GRP 22	G-ATRAIN - Granulation A Train CAP																		1
GRP 29	Train A producing MAP																		
GRP 30	Train A producing DAP																		
GRP 23	G-BTRAIN - Granulation B Train CAP																		1

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Faustina Plant  
Agency Interest No.: 2425  
Mosaic Fertilizer, LLC  
St James, St. James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	2305	22	29*	51*	53	56	59
GRP 31	Train B producing MAP																		
GRP 32	Train B producing DAP																		
GRP 27	G-CTRAIN - Granulation C Train																		
GRP 33	Train C producing MAP																		
GRP 34	Train C producing DAP																		
GRP 26	G-ACIDTKS - Granulation Phosphoric Acid Tank CAP																		
GRP 28	UT-9 - Portable Diesel-Fired Equipment	1																	

\* The regulations indicated above are State Only.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

### KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
  - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

Faustina Plant  
 Agency Interest No.: 2425  
 Mosaic Fertilizer, LLC  
 St James, St. James Parish, Louisiana

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS					40 CFR 61					40 CFR 63 NESHAP					40 CFR		
		K	Ka	Kb	Dc	T	V	A	M	R	A	BB	SS	VV	HHH	S2	64	68	82
GRP 25	Plant Wide						3	3	1	1	1	1	1				2	1	1
ARE 7	G-BDOCK - Barge Loading Dock																		
ARE 8	G-SDOCK - Ship Loading Dock																		
ARE 10	UT-4C - Sulfur Pit																		
ARE 14	G-H2SO4RR - H2SO4 Railcar Loading Area																		
ARE 19	G-RAILCAR - Railcar Loading Area - MAP, DAP																		
ARE 20	G-TSCALE - Truck Scale Loading																		
ARE 24	G-OLDWARE - Old Warehouse																		
ARE 25	G-NEW WARE - New Warehouse																		
ARE 26	UT-5 - Cooling Ponds/Gypsum Stacks																		
EQT 4	A-1 - Ammonia Plant Primary Reformer																		
EQT 5	A-2 - Ammonia Tank Flare																		
EQT 6	UT-1 - Bulk Gasoline Storage Tank																		
EQT 7	A-4 - Ammonia Plant Startup Heater																		
EQT 8	G-A COOLER - Granulation A Train Cooler Scrubber																		
EQT 9	G-B COOLER - Granulation B Train Cooler Scrubber																		
EQT 10	A-7 - Hydrate Lime Silo #1																		
EQT 11	UT-2 - Backup Water Treatment Lime Silo																		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**Faustina Plant**  
**Agency Interest No.: 2425**  
**Mosaic Fertilizer, LLC**  
**St. James St. James Parish Louisiana**

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**Faustina Plant**  
**Agency Interest No.: 2425**  
**Mosaic Fertilizer, LLC**  
**St James, St. James Parish, Louisiana**

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Faustina Plant**  
Agency Interest No.: 2425  
Mosaic Fertilizer, LLC  
St James, St. James Parish, Louisiana

EQT 120	G-CRG - Granulation C RG Scrubber
EQT 121	G-HOLDTK1 - Granulation Runoff Water Holding Tank No. 1
EQT 122	G-HOLDTK2 - Granulation Runoff Water Holding Tank No. 2
EQT 123	UT-10 - Utilities Emergency Generator
EQT 124	UT-11 - Utilities Emergency Air Compressor
EQT 125	UT-12 - Utilities Emergency Fire Pump
GRP 20	UT-4 - Sulfur Handling Facility CAP
GRP 22	G-TRAIN - Granulation A Train CAP
GRP 29	Train A producing MAP
GRP 30	Train A producing DAP
GRP 23	G-BTRAIN - Granulation B Train CAP
GRP 31	Train B producing MAP
GRP 32	Train B producing DAP
GRP 27	G-CTRAIN - Granulation C Train
GRP 33	Train C producing MAP
GRP 34	Train C producing DAP
GRP 26	G-ACIDTKS - Granulation Phosphoric Acid Tank CAP
GRP 28	UT-9 - Portable Diesel-Fired Equipment

**KEY TO MATRIX**

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Faustina Plant**  
**Agency Interest No.: 2425**  
**Mosaic Fertilizer, LLC**  
**St James, St. James Parish, Louisiana**

- 1 - The regulations have applicable requirements that apply to this particular emission source.
  - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

Faustina Plant  
 Agency Interest No.: 2425  
 Mosaic Fertilizer, LLC  
 St James, St. James Parish, Louisiana

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
Entire Facility AI # 2425	Compliance Assurance Monitoring (CAM) [40 CFR 64]	EXEMPT. Deadlines for Submittals allows the facility to submit the Compliance Assurance Monitoring plan at the first renewal of the Part 70 Operating permit.
Entire Facility AI # 2425	NESHAPS Subpart M-National Emission Standard for Asbestos [40 CFR 61.145] Emission Standards for Asbestos [LAC 33:III.5151]	Shall comply with the regulations under this Subpart if triggered. Applies to owner or operator of a facility being demolished or renovated.
Entire Facility AI # 2425 & ARE 26	NESHAPS Subpart R-National Emission Standard for Radon Emissions from Phosphogypsum Stacks [40 CFR 61.202]	EXEMPT. The facility does not need to test for compliance until the stack becomes inactive. At present the stack still meets the definition of active for water management.
Entire Facility AI # 2425	Standards of Performance for the Phosphate Fertilizer Industry: Diammonium Phosphate Plants. [40 CFR 60, Subpart V]	DOES NOT APPLY. The Diammonium Phosphate facilities were built prior to October 22, 1974.
Entire Facility AI # 2425	Standards of Performance for the Phosphate Fertilizer Industry: Wet-Process Phosphoric Acid Plants. [40 CFR 60, Subpart T]	DOES NOT APPLY. The Phosphoric Acid facility was built prior to October 22, 1974 and has been permanently shutdown.
Entire Facility AI # 2425	Control of Emissions for Specific Industries: Subchapter C. Phosphate Fertilizer Plants [LAC 33:III.2305]	EXEMPT. The Diammonium Phosphate facilities must meet the more stringent total fluorides emission rate of 40 CFR 63 Subpart BB

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Faustina Plant**  
**Agency Interest No.: 2425**  
**Mosaic Fertilizer, LLC**  
**St James, St. James Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 004, 007, 083, 123, 124 and 125. GRP 22 and 23	Emission Standards for Sulfur Dioxide Emissions Limitations[LAC 33:III.1503.C] Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1513]	EXEMPT. Units emit less than 250 tons of SO <sub>2</sub> per year. Record and retain at the site for at least 2 years the data required to demonstrate exemption from SO <sub>2</sub> standards of Chapter 15. Exemption data shall be reported annually in accordance with LAC 33:III.918.
EQT 004	Comprehensive Toxic Air Pollutant Emission Control Program[LAC 33:III.5109.A]	EXEMPT. Unit emits formaldehyde greater than the MFR but combusts natural gas which is a Group 1 virgin fossil fuel and is therefore exempt from MACT controls per LAC 33:III.5105.B.3. Emissions must be included in the annual TEDI submittal.
ARE 8, 10, 14, and 26 EQT 4, 8, 9,18, 19, 41, 42, 77-80, 95-99, 102-105, 107-111, 114 & 121-122 FUG 8, 9 & 11 RLP 2	Comprehensive Toxic Air Pollutant Emission Control Program[LAC 33:III.5109.A]	EXEMPT. All associated equipment emit pollutants, which are Class III TAPs. These pollutants are not subject to MACT control. Emissions must be included in the annual TEDI submittal.
EQT 061 and 106.	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60.110b]	DOES NOT APPLY. Vapor pressure is less than 1.5 psia; tank constructed prior to July 23, 1984. Storage capacity is less than 75 cubic meters (19,812 gallons).
EQT 006 and 069.	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60.110b]	DOES NOT APPLY. Storage capacity is less than 75 cubic meters (19,812 gallons).

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**Faustina Plant**  
Agency Interest No.: 2425  
Mosaic Fertilizer, LLC  
St James, St. James Parish, Louisiana

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 108, 111, 112, 113, 114, 115, 116, 117, and 119	NESHAPS Subpart BB-National Emission Standard for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants [40 CFR 63.623 and 624]	DOES NOT APPLY. These scrubbers are considered to be process scrubbers for the Diammonium Phosphate trains and are not required to meet the operating requirements for wet scrubbing emission control scrubbers.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
  1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

## 40 CFR PART 70 GENERAL CONDITIONS

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of

## 40 CFR PART 70 GENERAL CONDITIONS

attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;

## 40 CFR PART 70 GENERAL CONDITIONS

5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

## 40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 12, 1996. Additional information dated January 11, 1999, July 15, 1999, June 14, 2002, August 2, 2003, and January 23, 2004 was also received. A complete permit reconciliation application was submitted on October 19, 2005, which supersedes all previous submittals. Revised information dated April 26, 2006 was received.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

2. Report by September 30 to cover April through June
  3. Report by December 31 to cover July through September
  4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

## INVENTORIES

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
 Activity Number: PER19960001  
 Permit Number: 2560-00021-V0  
 Air - Title V Regular Permit Initial

### Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
AREE007	G-BOOCK - Barge Loading Dock	680000 tons/yr	300 tons/hr	GMAP, DAP and 30% or 50 % Phosphoric Acid	2267 hr/yr (All Year)	
AREE008	G-SDOCK - Ship Loading Dock	1400 tons/hr	800 tons/hr	GMAP, DAP, NH3, H2SO4, Molten and Prilled Sulfur	8760 hr/yr (All Year)	
AREE010	UT-4C - Sulfur Pit	1.46 MM long tons/yr		Molten Sulfur	8760 hr/yr (All Year)	
AREE014	G-H2SO4RR - H2SO4 Railcar Loading Area	2.61 MM gallons/yr	13033 gallons/hr	Sulfuric Acid	200 hr/yr (All Year)	
AREE019	G-RAILCAR - Railcar Loading Area - MAP, DAP	200000 tons/yr	300 tons/hr	GMAP or DAP	667 hr/yr (All Year)	
AREE020	G-TSCALE - Truck Scale Loading	3300 tons/yr	3000 lb/batch	MAP, DAP	550 hr/yr (All Year)	
AREE024	G-OLDWARE - Old Warehouse	550000 tons/yr		DAP and/or GMAP	8760 hr/yr (All Year)	
AREE025	G-NEWWARE - New Warehouse	1.65 MM tons/yr		DAP	8760 hr/yr (All Year)	
AREE026	UT-5 - Cooling Ponds/Gypsum Stacks			188 Active Acres, 187 Inactive Acres	8760 hr/yr (All Year)	
EQT004	A-1 - Ammonia Plant Primary Reformer	1750 tons/day	1650 tons/day	Ammonia	8760 hr/yr (All Year)	
EQT005	A-2 - Ammonia Tank Flare	1400 scf/hr	100 scf/hr	ammonia, pilot fueled by 0.105 MM Blulhr natural gas	8760 hr/yr (All Year)	
EQT006	UT-1 - Bulk Gasoline Storage Tank	8000 gallons	36000 gallons/yr	Gasoline	8760 hr/yr (All Year)	
EQT007	A-4 - Ammonia Plant Startup Heater	6840 MM BTU/yr	38 MM BTU/hr	Natural gas	180 hr/yr (All Year)	
EQT008	G-ACOOLER - Granulation A Train Cooler Scrubber				8760 hr/yr (All Year)	
EQT009	G-BCOOLER - Granulation B Train Cooler Scrubber				8760 hr/yr (All Year)	
EQT010	A-7 - Hydrate Lime Silo #1	1.8 MM lbs/yr	46000 lbs/batch	1.5 Trucks/day	60 hr/yr (All Year)	
EQT011	UT-2 - Backup Water Treatment Lime Silo	12593 tons/yr	5 Trucks/day	Lime	821 hr/yr (All Year)	
EQT018	UT-4A - Sulfur Storage Tank A-5-1			Molten Sulfur	8760 hr/yr (All Year)	
EQT019	UT-4B - Sulfur Storage Tank A-5-2			Molten Sulphur	8760 hr/yr (All Year)	
EQT022	UT-3 - 1st and 2nd Stage Water Treatment Lime Silo	41975 tons/yr	5 Trucks/day	Lime	2738 hr/yr (All Year)	
EQT041	UT-6 - Sulfuric Acid Tank T-AG-1	1.9 million gallons	125.58 MM gallons/yr	Sulfuric Acid	8760 hr/yr (All Year)	
EQT042	UT-7 - Sulfuric Acid Tank T-AG-2	1.9 million gallons	125.58 MM gallons/yr	Sulfuric Acid	8760 hr/yr (All Year)	
EQT043	A-8 - Hydrate Lime Silo #2	1.8 MM lbs/yr	46000 lbs/batch	Lime	60 hr/yr (All Year)	
EQT061	G-CCT - Oil Tank 2-A, C Train	20000 gallons	2.2 MM gallons/yr	oil (dedusting agent)	8760 hr/yr (All Year)	
EQT069	UT-8 - Gypsum Pond Shop Gasoline Tank	500 gallons	10000 gallons/yr	Gasoline	8760 hr/yr (All Year)	
EQT077	G-ACID N - N. Phos Acid Storage	670000 gallons	340 MM gallons/yr	Phosphoric Acid, maximum 50% strength	8760 hr/yr (All Year)	
EQT078	G-ACID S - S. Phos Acid Storage	678000 gallons	340 MM gallons/yr	Phosphoric Acid, maximum 50% strength	8760 hr/yr (All Year)	
EQT079	G-ACID E - E. Phos Acid Storage	590000 gallons	340 MM gallons/yr	Phosphoric Acid, maximum 50% strength	8760 hr/yr (All Year)	
EQT080	G-ACID W - W. Phos Acid Storage	590000 gallons	340 MM gallons/yr	Phosphoric Acid, maximum 50% strength	8760 hr/yr (All Year)	
EQT083	AUT-1 - Utility Boiler #2		204 MM BTU/hr	natural gas	8760 hr/yr (All Year)	
EQT095	G-AFUME - Granulation A Train Fumes Scrubber		2875 tons/day	2875 tpd DAP, 1900 Ipd MAP	8760 hr/yr (All Year)	
EQT096	G-BFUME - Granulation B Train Fumes Scrubber		2875 tons/day	2875 tpd DAP, 1900 Ipd MAP	8760 hr/yr (All Year)	

**INVENTORIES**

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
 Activity Number: PER1996001  
 Permit Number: 2560-00021-V0  
 Air - Title V Regular Permit Initial

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT097	G-ATA1L - Granulation A Train Tail Gas Scrubber		2875 tons/day	2875 Ipd DAP, 1900 ipd MAP	8760 hr/yr (All Year)	
EQT098	G-BTA1L - Granulation B Train Tail Gas Scrubber		2875 tons/day	2875 Ipd DAP, 1900 ipd MAP	8760 hr/yr (All Year)	
EQT099	G-CTA1L - Granulation C Train Tail Gas Scrubber		5750 tons/day	DAP	8760 hr/yr (All Year)	
EQT102	A-5 - Ammonia Plant Cooling Tower	72000 gallons/min	72000 gallons/min		8760 hr/yr (All Year)	
EQT103	A-10 - Sour Oil Degassifier 105J				8760 hr/yr (All Year)	
EQT104	A-11 - Ammonia Plant Sulfuric Acid Storage Tank	750 gallons	15000 gallons/yr	Sulfuric Acid, maximum 98% strength	8760 hr/yr (All Year)	
EQT105	A-12 - Utilities Sulfuric Acid Storage Tank	6650 gallons	130000 gallons/yr	Sulfuric Acid, maximum 98% strength	8760 hr/yr (All Year)	
EQT106	A-13 - Amines Solution Storage Tank	31600 gallons	5765 gallons/yr	MDEA	8760 hr/yr (All Year)	
EQT107	A-9 - Sour Oil Degassifier 103J				8760 hr/yr (All Year)	
EQT108	G-A1STSTG - Granulation A 1st Stage Scrubber				8760 hr/yr (All Year)	
EQT109	G-ACID C - C-54 Acid Storage Tank	312000 gallons	340 MM gallons/yr	Phosphoric Acid, maximum 50% strength	8760 hr/yr (All Year)	
EQT110	G-ACID F - EURC Acid Storage Tank	601000 gallons	340 MM gallons/yr	Phosphoric Acid, maximum 50% strength	8760 hr/yr (All Year)	
EQT111	G-ADRYER - Granulation A Dryer Scrubber				8760 hr/yr (All Year)	
EQT112	G-ADUST - Granulation A Dust Scrubber				8760 hr/yr (All Year)	
EQT113	G-B1STSTG - Granulation B 1st Stage Scrubber				8760 hr/yr (All Year)	
EQT114	G-BDRYER - Granulation B Dryer Scrubber				8760 hr/yr (All Year)	
EQT115	G-BDUST - Granulation B Dust Scrubber				8760 hr/yr (All Year)	
EQT116	G-CCOOLER - Granulation C Train Cooler Scrubber				8760 hr/yr (All Year)	
EQT117	G-CDRYER - Granulation C Dryer Scrubber				8760 hr/yr (All Year)	
EQT118	G-CONVEYOR - Conveyor System Transfer Points				8760 hr/yr (All Year)	
EQT119	G-CREACTN - Granulation C Reaction Scrubber		2.2 MM tons/yr	GMAP and/or DAP	8760 hr/yr (All Year)	
EQT120	G-CRG - Granulation C RG Scrubber				8760 hr/yr (All Year)	
EQT121	G-HOLDTK1 - Granulation Runoff Water Holding Tank No. 1	23500 gallons	1.22 MM gallons/yr	Runoff water from site	8760 hr/yr (All Year)	
EQT122	G-HOLDTK2 - Granulation Runoff Water Holding Tank No. 2	38000 gallons	1.98 MM gallons/yr	Runoff water from site	8760 hr/yr (All Year)	
EQT123	UT-10 - Utilities Emergency Generator			Diesel Fired	50 hr/yr (All Year)	
EQT124	UT-11 - Utilities Emergency Air Compressor	250 horsepower	250 horsepower	Diesel Fired	10 hr/yr (All Year)	
EQT125	UT-12 - Utilities Emergency Fire Pump	220 horsepower	220 horsepower	Diesel Fired	50 hr/yr (All Year)	
FUG008	G-FUG - Granulation Plant Fugitives		Not applicable		8760 hr/yr (All Year)	
FUG009	A-6 - Ammonia Plant Fugitives		Not applicable		8760 hr/yr (All Year)	
FUG011	U-FUG-1 - Utility Plant Fugitives		Not applicable		8760 hr/yr (All Year)	
RLP002	A-3 - Carbon Dioxide Regeneration Vent	1750 tons/day	1650 tons/day	Ammonia	8760 hr/yr (All Year)	

**INVENTORIES**

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

**Subject Item Groups:**

ID	Description	Included Components (from Above)
GRP010	6-68, 13-68, 12-68, 7-68, 7-73	EQT8 G-A-COOLER - Granulation A Train Cooler Scrubber
GRP010	6-68, 13-68, 12-68, 7-68, 7-73	EQT9 G-B-COOLER Granulation B Train Cooler Scrubber
GRP010	6-68, 13-68, 12-68, 7-68, 7-73	EQT95 G-A-FUME - Granulation A Train Fumes Scrubber
GRP010	6-68, 13-68, 12-68, 7-68, 7-73	EQT96 G-B-FUME - Granulation B Train Fumes Scrubber
GRP010	6-68, 13-68, 12-68, 7-68, 7-73	EQT99 G-C-TAIL - Granulation C Train Tail Gas Scrubber
GRP020	UT-4 - Sulfur Handling Facility CAP	ARE10 UT-4C - Sulfur Pit
GRP020	UT-4 - Sulfur Handling Facility CAP	EQT19 UT-4B - Sulfur Storage Tank A-5-2
GRP020	UT-4 - Sulfur Handling Facility CAP	EQT18 UT-4A - Sulfur Storage Tank A-5-1
GRP022	G-ATRAIN - Granulation A Train CAP	EQT8 G-A-COOLER - Granulation A Train Cooler Scrubber
GRP022	G-ATRAIN - Granulation A Train CAP	EQT108 G-A-1ST-STG - Granulation A 1st Stage Scrubber
GRP022	G-ATRAIN - Granulation A Train CAP	EQT111 G-ADRYER - Granulation A Dryer Scrubber
GRP022	G-ATRAIN - Granulation A Train CAP	EQT112 G-ADJUST - Granulation A Dust Scrubber
GRP022	G-ATRAIN - Granulation A Train CAP	EQT97 G-A-TAIL - Granulation A Train Tail Gas Scrubber
GRP022	G-ATRAIN - Granulation A Train CAP	EQT95 G-A-FUME - Granulation A Train Fumes Scrubber
GRP023	G-BTRAIN - Granulation B Train CAP	EQT9 G-B-COOLER - Granulation B Train Cooler Scrubber
GRP023	G-BTRAIN - Granulation B Train CAP	EQT98 G-B-TAIL - Granulation B Train Tail Gas Scrubber
GRP023	G-BTRAIN - Granulation B Train CAP	EQT113 G-B-1ST-STG - Granulation B 1st Stage Scrubber
GRP023	G-BTRAIN - Granulation B Train CAP	EQT115 G-BDUST - Granulation B Dust Scrubber
GRP023	G-BTRAIN - Granulation B Train CAP	EQT114 G-BDRYER - Granulation B Dryer Scrubber
GRP023	G-BTRAIN - Granulation B Train CAP	EQT96 G-B-FUME - Granulation B Train Fumes Scrubber
GRP025	Entire Facility	EQT61 G-COT - Oil Tank 2-A, C Train
GRP025	Entire Facility	EQT69 UT-8 - Gypsum Pond Shop Gasoline Tank
GRP025	Entire Facility	EQT77 G-ACID N - N-Phos Acid Storage
GRP025	Entire Facility	EQT78 G-ACID S - S-Phos Acid Storage
GRP025	Entire Facility	EQT79 G-ACID E - E-Phos Acid Storage
GRP025	Entire Facility	EQT80 G-ACID W - W-Phos Acid Storage
GRP025	Entire Facility	EQT83 AUT-1 - Utility Boiler #2
GRP025	Entire Facility	EQT95 G-A-FUME - Granulation A Train Fumes Scrubber
GRP025	Entire Facility	EQT96 G-B-FUME - Granulation B Train Fumes Scrubber
GRP025	Entire Facility	EQT97 G-A-TAIL - Granulation A Train Tail Gas Scrubber
GRP025	Entire Facility	EQT98 G-B-TAIL - Granulation B Train Tail Gas Scrubber
GRP025	Entire Facility	EQT99 G-C-TAIL - Granulation C Train Tail Gas Scrubber
GRP025	Entire Facility	EQT102 A-5 - Ammonia Plant Cooling Tower
GRP025	Entire Facility	EQT103 A-10 - Sour Oil Degasser 105J
GRP025	Entire Facility	EQT104 A-11 - Ammonia Plant Sulfuric Acid Storage Tank
GRP025	Entire Facility	EQT105 A-12 - Utilities Sulfuric Acid Storage Tank
GRP025	Entire Facility	EQT106 A-13 - Amines Solution Storage Tank

## INVENTORIES

**AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant**  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

**Subject Item Groups:**

ID	Description	Included Components (from Above)
GRP025	Entire Facility	ARE7 G-BDOCK - Barge Loading Dock
GRP025	Entire Facility	EQT107 A-9 - Sour Oil Degasser 103J
GRP025	Entire Facility	EOT108 G-A1STSSTG - Granulation A 1st Stage Scrubber
GRP025	Entire Facility	EOT109 G-Acid C - C-54 Acid Storage Tank
GRP025	Entire Facility	EOT110 G-Acid F - FURC Acid Storage Tank
GRP025	Entire Facility	EOT111 G-ADRYER - Granulation A Dryer Scrubber
GRP025	Entire Facility	EOT112 G-ADJUST - Granulation A Dust Scrubber
GRP025	Entire Facility	EOT113 G-B1STSSTG - Granulation B 1st Stage Scrubber
GRP025	Entire Facility	EOT114 G-BDRYER - Granulation B Dryer Scrubber
GRP025	Entire Facility	EQT18 UT-4A - Sulfur Storage Tank A-5-1
GRP025	Entire Facility	EQT11 UT-2 - Backup Water Treatment Lime Silo
GRP025	Entire Facility	EQT10 A-7 - Hydrate Lime Silo #1
GRP025	Entire Facility	EQT9 G-BCOOLER - Granulation B Train Cooler Scrubber
GRP025	Entire Facility	EQT8 G-AACOOLER - Granulation A Train Cooler Scrubber
GRP025	Entire Facility	EQT7 A-4 - Ammonia Plant Startup Heater
GRP025	Entire Facility	EQT6 UT-1 - Bulk Gasoline Storage Tank
GRP025	Entire Facility	EQT5 A-2 - Ammonia Tank Flare
GRP025	Entire Facility	EQT4 A-1 - Ammonia Plant Primary Reformer
GRP025	Entire Facility	EQT43 A-8 - Hydrate Lime Silo #2
GRP025	Entire Facility	EQT42 UT-7 - Sulfuric Acid Tank T-AG-2
GRP025	Entire Facility	EQT41 UT-6 - Sulfuric Acid Tank T-AG-1
GRP025	Entire Facility	EQT22 UT-3 - 1st and 2nd Stage Water Treatment Lime Silo
GRP025	Entire Facility	EQT19 UT-4B - Sulfur Storage Tank A-5-2
GRP025	Entire Facility	ARE26 UT-5 - Cooling Fonds/Gypsum Stacks
GRP025	Entire Facility	ARE25 G-NEW WARE - New Warehouse
GRP025	Entire Facility	ARE24 G-OLDWARE - Old Warehouse
GRP025	Entire Facility	ARE20 G-TSCALE - Truck Scale Loading
GRP025	Entire Facility	ARE19 G-RAILCAR - Railcar Loading Area - MAP, DAP
GRP025	Entire Facility	ARE14 G-H2SO4RR H2SO4 Railcar Loading Area
GRP025	Entire Facility	ARE10 UT-4C - Sulfur Pit
GRP025	Entire Facility	ARE8 G-SDOCK - Ship Loading Dock
GRP025	Entire Facility	EQT115 G-BDUST - Granulation B Dust Scrubber
GRP025	Entire Facility	EQT116 G-COOLER - Granulation C Train Cooler Scrubber
GRP025	Entire Facility	EQT117 G-BDRYER - Granulation C Dryer Scrubber
GRP025	Entire Facility	EQT118 G-CONVEYOR - Conveyor System Transfer Points
GRP025	Entire Facility	EQT119 G-CREACTN - Granulation C Reaction Scrubber
GRP025	Entire Facility	EQT120 G-CRG - Granulation C RG Scrubber

**INVENTORIES**

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
 Activity Number: PER19960001  
 Permit Number: 2560-00021-V0  
 Air - Title V Regular Permit Initial

**Subject Item Groups:**

ID	Description	Included Components (from Above)
GRP025	Entire Facility	EQT121 G-HOLDTK1 - Granulation Runoff Water Holding Tank No. 1
GRP025	Entire Facility	EQT122 G-HOLDTK2 - Granulation Runoff Water Holding Tank No. 2
GRP025	Entire Facility	EQT123 UT-10 - Utilities Emergency Generator
GRP025	Entire Facility	EQT124 UT-11 - Utilities Emergency Air Compressor
GRP025	Entire Facility	EQT125 UT-12 - Utilities Emergency Fire Pump
GRP025	Entire Facility	FUG8 G-FUG - Granulation Plant Fugitives
GRP025	Entire Facility	FUG9 A-6 - Ammonia Plant Fugitives
GRP025	Entire Facility	FUG11 U-FUG-1 - Utility Plant Fugitives
GRP025	Entire Facility	GRP10 6-68, 13-68, 12-68, 7-68, 7-73
GRP025	Entire Facility	GRP20 UT-4 - Sulfur Handling Facility CAP
GRP025	Entire Facility	GRP22 G-ATRAIN - Granulation A Train CAP
GRP025	Entire Facility	GRP23 G-BTRAIN - Granulation B Train CAP
GRP025	Entire Facility	GRP26 G-ACIDTKS - Granulation Phosphoric Acid Tank CAP
GRP025	Entire Facility	GRP27 G-CTRAIN - Granulation C Train
GRP025	Entire Facility	GRP28 UT-9 - Portable Diesel-Fired Equipment
GRP025	Entire Facility	GRP29 Train A producing MAP
GRP025	Entire Facility	GRP30 Train A producing DAP
GRP025	Entire Facility	GRP31 Train B producing MAP
GRP025	Entire Facility	GRP32 Train B producing DAP
GRP025	Entire Facility	GRP33 Train C producing MAP
GRP025	Entire Facility	GRP34 Train C producing DAP
GRP025	Entire Facility	RLP2 A-3 - Carbon Dioxide Regeneration Vent
GRP026	G-ACIDTKS - Granulation Phosphoric Acid Tank CAP	EQT77 G-ACID N - N. Phos Acid Storage
GRP026	G-ACIDTKS - Granulation Phosphoric Acid Tank CAP	EQT78 G-ACID S - S. Phos Acid Storage
GRP026	G-ACIDTKS - Granulation Phosphoric Acid Tank CAP	EQT79 G-ACID E - E. Phos Acid Storage
GRP026	G-ACIDTKS - Granulation Phosphoric Acid Tank CAP	EQT80 G-ACID W - W. Phos Acid Storage
GRP026	G-ACIDTKS - Granulation Phosphoric Acid Tank CAP	EQT109 G-ACID C - C-54 Acid Storage Tank
GRP026	G-ACIDTKS - Granulation Phosphoric Acid Tank CAP	EQT110 G-ACID F - FURC Acid Storage Tank
GRP027	G-CTRAIN - Granulation C Train	EQT89 G-CTAIL - Granulation C Train Tail Gas Scrubber
GRP027	G-CTRAIN - Granulation C Train	EQT116 G-CCOOLER - Granulation C Train Cooler Scrubber
GRP027	G-CTRAIN - Granulation C Train	EQT117 G-CDRYER - Granulation C Dryer Scrubber
GRP027	G-CTRAIN - Granulation C Train	EQT119 G-CREACTN - Granulation C Reaction Scrubber
GRP027	G-CTRAIN - Granulation C Train	EQT120 G-CRG - Granulation C RG Scrubber
GRP028	UT-9 - Portable Diesel-Fired Equipment	EQT125 UT-12 - Utilities Emergency Fire Pump
GRP029	Train A producing MAP	GRP22 G-ATRAIN - Granulation A Train CAP
GRP030	Train A producing DAP	GRP22 G-ATRAIN - Granulation A Train CAP
GRP031	Train B producing MAP	GRP23 G-BTRAIN - Granulation B Train CAP

## INVENTORIES

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
 Activity Number: PER19960001  
 Permit Number: 2560-00021-V0  
 Air - Title V Regular Permit Initial

### Subject Item Groups:

ID	Description	Included Components (from Above)
GRP032	Train B producing DAP	GRP23 G-BTRAIN - Granulation B Train CAP
GRP033	Train C producing MAP	GRP27 G-CTRAIN - Granulation C Train
GRP034	Train C producing DAP	GRP27 G-CTRAIN - Granulation C Train

### Relationships:

Subject Item	Relationship	Subject Item
EQT108 G-A1STSTG - Granulation A 1st Stage Scrubber	Vents to	EQT95 G-AFUME - Granulation A Train Fumes Scrubber
EQT111 G-ADRYER - Granulation A Dryer Scrubber	Vents to	EQT97 G-ATAIL - Granulation A Train Tail Gas Scrubber
EQT112 G-ADUST - Granulation A Dust Scrubber	Vents to	EQT97 G-ATAIL - Granulation A Train Tail Gas Scrubber
EQT113 G-B1STSTG - Granulation B 1st Stage Scrubber	Vents to	EQT96 G-BFUME - Granulation B Train Fumes Scrubber
EQT114 G-BDRYER - Granulation B Dryer Scrubber	Vents to	EQT98 G-BTAIL - Granulation B Train Tail Gas Scrubber
EQT115 G-BDUST - Granulation B Dust Scrubber	Vents to	EQT98 G-BTAIL - Granulation B Train Tail Gas Scrubber
EQT116 G-COOLER - Granulation C Train Cooler Scrubber	Vents to	EQT99 G-CTAIL - Granulation C Train Tail Gas Scrubber
EQT117 G-CDRYER - Granulation C Dryer Scrubber	Vents to	EQT99 G-CTAIL - Granulation C Train Tail Gas Scrubber
EQT119 G-CREACTN - Granulation C Reaction Scrubber	Vents to	EQT99 G-CTAIL - Granulation C Train Tail Gas Scrubber
EQT120 G-CRG - Granulation C RG Scrubber	Vents to	EQT99 G-CTAIL - Granulation C Train Tail Gas Scrubber

### Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
ARE007 G-BDOCK - Barge Loading Dock			3		15	
ARE008 G-SDOCK - Ship Loading Dock			3		15	
ARE010 UT-4C - Sulfur Pit						270
ARE014 GH2SO4RR - H2SO4 Railroad Loading Area			3		10	70
ARE019 G-RAILCAR - Railcar Loading Area - MAP, DAP			3		15	
ARE020 G-TSCALE - Truck Scale Loading			3		15	
EQT004 A-1 - Ammonia Plant Primary Reformer	74.1	422692	11		105	345
EQT005 A-2 - Ammonia Tank Flare	65.6	1511	.7		136	1832
EQT006 UT-1 - Bulk Gasoline Storage Tank					.5	
EQT007 A-4 - Ammonia Plant Startup Heater	34	783				88.5
EQT008 G-A COOLER - Granulation A Train Cooler Scrubber	40	38000	4.44		80	129
EQT009 G-B COOLER - Granulation B Train Cooler Scrubber	52	59000		4.92	80	129
EQT010 A-7 - Hydrate Lime Silo #1	.03	12.5	3		90	
EQT011 UT-2 - Backup Water Treatment Lime Silo	.28	8.33	.8		110	
EQT018 UT-4A - Sulfur Storage Tank A-5-1	18	845	1		42	250
EQT019 UT-4B - Sulfur Storage Tank A-5-2	18	845	1		42	250
EQT022 UT-3 - 1st and 2nd Stage Water Treatment Lime Silo	.53	25	1		10	
EQT041 UT-6 - Sulfuric Acid Tank T-Ag-1				.90	40	120
EQT042 UT-7 - Sulfuric Acid Tank T-Ag-2					40	120
EQT043 A-8 - Hydrate Lime Silo #2	.03	12.5	3		75	

**INVENTORIES**

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
 Activity Number: PER19960001  
 Permit Number: 2560-00021-V0  
 Air - Title V Regular Permit Initial

## Stack Information:

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT061	G-COT - Oil Tank 2-A, C Train					20	
EQT069	UT-8 Gypsum Pond Shop Gasoline Tank					4	
EQT077	G-ACID N - N. Phos Acid Storage					30	
EQT078	G-ACID S - S. Phos Acid Storage					24	140
EQT079	G-ACID E - E. Phos Acid Storage					28	140
EQT080	G-ACID W - W. Phos Acid Storage					28	140
EQT083	AJT-1 - Utility Boiler #2	38.3	45136	5		56	340
EQT095	G-AFUME - Granulation A Train Fumes Scrubber	64	46500	4.59		130	176
EQT096	G-BFUME - Granulation B Train Fumes Scrubber	47	47000	4.62		130	176
EQT097	G-ATAIL - Granulation A Train Tail Gas Scrubber	41	68000	5.96		130	138
EQT098	G-BTAIL - Granulation B Train Tail Gas Scrubber	44	66000	5.62		130	146
EQT099	G-CTAIL - Granulation C Train Tail Gas Scrubber	73	260	8.77		115	147
EQT102	A-5 - Ammonia Plant Cooling Tower				2800	72	100
EQT104	A-11 - Ammonia Plant Sulfuric Acid Storage Tank					10	
EQT105	A-12 - Utilities Sulfuric Acid Storage Tank					10	
EQT106	A-13 - Amines Solution Storage Tank					16	
EQT109	G-ACID C - C-54 Acid Storage Tank					25	
EQT110	G-ACID F - FURC Acid Storage Tank					32	
EQT121	G-HOLDTK1 - Granulation Runoff Water Holding Tank No. 1					13	
EQT122	G-HOLDTK2 - Granulation Runoff Water Holding Tank No. 2					18	
[RLP002]	A-3 - Carbon Dioxide Regeneration Vent	202	27460	1.7		90	140

## Fee Information:

Subj Item Id	Multipplier	Units Of Measure	Fee Desc
GRP025	1750	Ton/Day	0640 - Ammonia Manufacture (Rated Capacity)
	4200	1,000 Ton/Yr	0650 - Fertilizer Manufacture (Rated Capacity)

## EMISSION RATES FOR CRITERIA POLLUTANTS

AIID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

### All phases

Subject Item		PM <sub>10</sub>		SO <sub>2</sub>		NOX		CO		VOC			
		Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 007 G-BDOCK		0.10	0.15	0.07									
ARE 008 G-SDOCK		0.58	0.69	0.26	0.12	0.14	0.02						
ARE 010 UT-4C			0.64			0.13							
ARE 019 G-RAILCAR		2.10	2.52	0.70									
ARE 020 G-TSCALE		0.009	0.01	0.002									
ARE 024 G-OLDWARE		0.47	0.89	1.95									
ARE 025 G-NEW WARE		0.04	0.07	0.16									
EQT 004 A-1		7.40	7.85	32.42	0.58	0.62	2.56	178.74	214.48	782.86	81.81	86.77	358.34
EQT 005 A-2		0.001	0.011	< 0.005	< 0.001	< 0.001	2.27	40.14	0.34	0.008	0.118	0.05	0.001
EQT 006 UT-1													
EQT 007 A-4		0.28	0.34	0.025	0.022	0.027	0.002	3.73	4.47	0.34	3.13	3.76	0.28
EQT 008 G-A COOLER			4.62										
EQT 009 G-B COOLER			3.85										
EQT 010 A-7			1.69	2.02	0.05								
EQT 011 UT-2			0.03	0.04	0.01								
EQT 018 UT-4A				1.39					0.28				
EQT 019 UT-4B				1.39					0.28				
EQT 022 UT-3			0.02	0.03	< 0.001								

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-Y0

Air - Title V Regular Permit Initial

### All phases

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 043 A-4	0.03	0.04	0.001												
EQT 061 G-COT													0.007	0.008	0.03
EQT 069 UT-4													0.05	0.05	0.20
EQT 083 AUT-1	1.63	1.96	7.15	0.18	0.22	0.80	16.32	16.32	71.48	12.65	15.18	55.40	0.45	0.54	1.97
EQT 095 G-AFUME		29.15													
EQT 096 G-BFUME		20.58													
EQT 097 G-ATAIL		6.47			0.01					1.60			1.34		0.088
EQT 098 G-BTAIL		7.63			0.01					1.60			1.34		0.088
EQT 099 G-CTAIL	26.02	31.32	115.74	0.013	0.024	0.06	2.21	3.92	10.24	1.85	3.29	8.60	0.12	0.22	0.56
EQT 102 A-5	4.71	5.31	20.63												
EQT 106 A-13													< 0.001	< 0.001	< 0.001
EQT 118 G-CONVEYOR	0.36	0.71	1.56												
EQT 123 UT-10	0.55	0.66	0.01	0.51	0.62	0.01	7.75	9.30	0.19	1.67	2.00	0.04	0.63	0.75	0.02
EQT 124 UT-11	0.55	0.66	0.003	0.51	0.62	0.003	7.75	9.30	0.04	1.67	2.00	0.008	0.63	0.75	0.003
EQT 125 UT-12	0.48	0.58	0.01	0.45	0.54	0.011	6.82	8.18	0.17	1.47	1.76	0.04	0.55	0.66	0.01
FUG 008 G-FUG	0.70	0.84	3.07												
GRP 020 UT-4	3.42		15.00	0.68			2.98								
GRP 022 G-TRAIN	33.63		150.03	0.008		0.034	1.28		5.71	1.07		4.80	0.07	0.31	

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

### All phases

PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
GRP 023 G-BTRAIN	26.81		119.61	0.008		0.034	1.28		5.71	1.07		4.80	0.07		0.31
GRP 028 UT-9	2.33	2.79	1.13	2.17	2.60	1.06	32.77	39.32	15.97	7.06	8.47	3.44	2.64	3.17	1.29
RLP 002 A-3										17.97	21.56	78.70	35.39	42.47	155.01

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

### Permit Phase Totals:

PM10: 469.60 tons/yr

SO2: 7.57 tons/yr

NOx: 893.05 tons/yr

CO: 514.50 tons/yr

VOC: 170.70 tons/yr

### Emission rates Notes:

ARE 007	PM10	Avg lb/hr	Based upon dedust oil being sprayed on the GMAP and DAP prior to loading, the loading spoon being positioned below the opening to the barge covers, and the conveyor system being covered
ARE 007	PM10	Max lb/hr	Which Months: All Year
ARE 007	PM10	Tons/Year	Based upon dedust oil being sprayed on the GMAP and DAP prior to loading, the loading spoon being positioned below the opening to the barge covers, and the conveyor system being covered
ARE 008	PM10	Avg lb/hr	Based upon dedust oil being sprayed on the GMAP and DAP prior to loading, the loading spoon being positioned below the opening to the vessel or barge covers, and the conveyor system being covered
ARE 008	PM10	Max lb/hr	Which Months: All Year
ARE 008	PM10	Tons/Year	Based upon dedust oil being sprayed on the GMAP and DAP prior to loading, the loading spoon being positioned below the opening to the vessel or barge covers, and the conveyor system being covered

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 24425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

**All phases**

Ammonia		Benzene			Chlorine			Dichlorobenzene			Formaldehyde			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Avg lb/hr	Max lb/hr	Tons/Year
ARE 008 G-SOCK	0.25	2.00	0.06											
ARE 010 UT-4C														
ARE 014 G-H2SO4RR														
ARE 026 UT-5														
EQT 004 A-1				0.002	0.002	0.009				0.001	0.001	0.005	0.073	0.077
EQT 005 A-2	9.03	160.00	1.12											
EQT 008 G-AACOOLER		6.00												
EQT 009 G-BCOOLER		6.00												
EQT 018 UT-4A														
EQT 019 UT-4B														
EQT 041 UT-6														
EQT 042 UT-7														
EQT 077 G-Acid N														
EQT 078 G-Acid S														
EQT 079 G-Acid E														
EQT 080 G-Acid W														
EQT 095 G-AFUME			320.00											
EQT 096 G-BFUME			320.00											

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

**All phases**

		Hydrogen sulfide			Methanol			Phosphoric acid			Sulfuric acid				
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 008 G-SOCK			7.28	8.74	1.38				< 0.001	< 0.001	0.001	0.003	0.003	< 0.001	
ARE 010 UT-4C					0.47										
ARE 014 G-HSGARR															
ARE 026 UT-5	0.10	0.12	0.43												
EQT 004 A-1															
EQT 005 A-2															
EQT 008 G-AACOOLER															
EQT 009 G-BACOOLER															
EQT 018 UT-4A							0.76								
EQT 019 UT-4B							0.76								
EQT 041 UT-6										< 0.001	< 0.001	0.002			
EQT 042 UT-7										< 0.001	< 0.001	0.002			
EQT 077 G-ACID N									0.006						
EQT 078 G-ACID S									0.006						
EQT 079 G-ACID E									0.006						
EQT 080 G-ACID W									0.006						
EQT 095 G-ARUME															
EQT 096 G-BRUME															

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air • Title V Regular Permit Initial

**All phases**

Subject Item	Toluene			Total fluorides		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 008 G-SOCK			< 0.001	< 0.001	< 0.001	< 0.001
ARE 010 UT-4C						
ARE 014 G-HSDARR						
ARE 026 UT-5						
EQT 004 A-1	0.003	0.004	0.015			
EQT 005 A-2						
EQT 008 G-A-COOLER					11.80	
EQT 009 G-B-COOLER						11.80
EQT 018 UT-4A						
EQT 019 UT-4B						
EQT 041 UT-6						
EQT 042 UT-7					1.67	
EQT 077 G-ACID N						
EQT 078 G-ACIDS					1.70	
EQT 079 G-ACIDE						1.62
EQT 080 G-ACID W						1.62
EQT 095 G-BFUME						20.00
EQT 096 G-BFUME						20.00

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

### All phases

Ammonia		Benzene			Chlorine			Dichlorobenzene			Formaldehyde			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Avg lb/hr	Max lb/hr	Tons/Year
EQT 097 G-ATAIL		30.00												
EQT 098 G-BTAIL		30.00												
EQT 099 G-CTAIL	166.60	800.00	942.51											
EQT 102 A-5														
EQT 103 A-10	0.088	0.106	0.39											
EQT 104 A-11														
EQT 105 A-12														
EQT 107 A-9	0.088	0.106	0.39											
EQT 109 G-ACID C														
EQT 110 G-ACID F														
EQT 121 G-HOLDIK1														
EQT 122 G-HOLDIK2														
FUG 008 G-FUG	0.33	0.40	1.45											
FUG 009 A-6	2.94	3.52	12.93											
FUG 011 U-FUG-1										< 0.001	< 0.001	< 0.001		
GRP 020 U-4														
GRP 022 G-TRAIN	49.81		395.02											
GRP 023 G-BTRAIN	34.03		317.85											

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-Y0

Air - Title V Regular Permit Initial

**All phases**

Subject Item	Hydrogen sulfide			Methanol			Phosphoric acid			Sulfuric acid		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 097 G-ATALL												
EQT 098 G-BTALL												
EQT 099 G-CTALL												
EQT 102 A-5												
EQT 103 A-10												
EQT 104 A-11												
EQT 105 A-12												
EQT 107 A-9												
EQT 109 G-ACID C												
EQT 110 G-ACID F												
EQT 121 G-HOLDTK1												
EQT 122 G-HOLDTK2												
FUG 008 G-FUG												
FUG 009 A-6												
FUG 011 U-FUG-1												
GRP 020 UT-4												
GRP 022 G-ATRAIN												
GRP 023 G-BTRAIN												

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

### All phases

Subject Item	Toluene			Total Fluorides		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 097 G-ATAIL					16.40	
EQT 098 G-BTAIL					16.40	
EQT 099 G-CTAIL				4.58	6.60	20.74
EQT 102 A-5						
EQT 103 A-10						
EQT 104 A-11						
EQT 105 A-12						
EQT 107 A-9						
EQT 109 G-ACID C				1.39		
EQT 110 G-ACID F					1.57	
EQT 121 G-HOLDTK1				0.006	0.008	0.028
EQT 122 G-HOLDTK2						
FUG 008 G-FUG				0.006	0.007	0.027
FUG 009 A-6						
FUG 011 U-FUG-1						
GRP 020 UT-4						
GRP 022 G-RAIN				3.13		32.11
GRP 023 G-BRAIN				3.13		32.11

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air • Title V Regular Permit Initial

**All phases**

Ammonia		Benzene		Chlorine		Dichlorobenzene		Formaldehyde	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
GRP 026 GACDTS									
RLP 002 A-3	1.68	2.07	7.36						

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

### All phases

Subject Item	Hydrogen sulfide			Methanol			Phosphoric acid			Sulfuric acid		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
GRP 026 GACDTS							0.005		0.022	< 0.001		< 0.001
RLP 002 A-3				31.80	38.16	139.30						

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

### All phases

Subject Item	Toluene	Total fluorides		
	Avg lb/hr	Max lb/hr	Avg lb/yr	Max lb/yr
GRP 026 GACDTRKs			1.41	6.20
RLP 002 A-3				

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

### Permit Parameter Totals:

Ammonia: 1679.08 tons/yr

Benzene: 0.009 tons/yr

Chlorine: 0.11 tons/yr

Dichlorobenzene: 0.005 tons/yr

Formaldehyde: 0.32 tons/yr

Hydrofluoric acid: 0.43 tons/yr

Hydrogen sulfide: 10.05 tons/yr

Methanol: 139.30 tons/yr

Phosphoric acid: 0.022 tons/yr

Sulfuric acid: 0.004 tons/yr

Toluene: 0.015 tons/yr

Total fluorides: 91.27 tons/yr

### Emission Rates Notes:

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### ARE007 G-BDOCK - Barge Loading Dock

- 1 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 2 Total suspended particulate <= 63.0 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]  
Which Months: All Year Statistical Basis: None specified

### ARE008 G-SDOCK - Ship Loading Dock

- 3 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 4 Total suspended particulate <= 74.74 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]  
Which Months: All Year Statistical Basis: None specified
- 5 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### ARE010 UT-4C - Sulfur Pit

- 6 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]  
Which Months: All Year Statistical Basis: Six-minute average
- 7 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### ARE014 G-H2SO4RR - H2SO4 Railcar Loading Area

- 8 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### ARE019 G-RAILCAR - Railcar Loading Area - MAP, DAP

- 9 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 10 Total suspended particulate <= 63.0 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]  
Which Months: All Year Statistical Basis: None specified

### ARE020 G-TSCALE - Truck Scale Loading

- 11 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

### ARE024 G-GOLDWARE - Old Warehouse

- 12 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### ARE024 G-OLDWARE - Old Warehouse

- 13 Total suspended particulate <= 46.72 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]  
Which Months: All Year Statistical Basis: None specified

### ARE025 G-NEW WARE - New Warehouse

- 14 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 15 Total suspended particulate <= 57.86 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]  
Which Months: All Year Statistical Basis: None specified

### UT-5 - Cooling Ponds/Gypsum Stacks

- 16 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]
- 17 Rn-222 <= 20 pCi./m<sup>2</sup>-s. After a phosphogypsum stack has become an inactive stack, the owner or operator shall assure that the stack does not emit more than 20 pCi/m<sup>2</sup>-s of radon-222 into the air. [40 CFR 61.202]
- Which Months: None Statistical Basis: Approved basis
- 18 Within sixty days following the date on which a stack becomes an inactive stack, the owner or operator shall test the stack for radon-222 flux in accordance with the procedures described in 40 CFR part 61, appendix B, Method 115. For the purposes of this requirement, the stack will become inactive when the stack no longer requires water management as defined in the water Permit No. LA0029769. [40 CFR 61.203(a)]
- 19 The owner or operator shall notify EPA and the Office of Environmental Assessment, Air Quality Assessment Division, Engineering Support Section at least 30 days prior to each emissions test so that EPA and the department may, at its option, observe the test. [40 CFR 61.203(a)]
- 20 Submit report within ninety days after testing is required. The owner or operator shall provide EPA and the Office of Environmental Assessment, Air Quality Assessment Division, Engineering Support Section a report detailing the actions taken and the results of the radon-222 flux testing. Each report shall also include the information required in 40 CFR 61.203(b)(1) through(v) and signed and dated per 40 CFR 61.203(b)(2). [40 CFR 61.203(b)(1)]

### EQT004 A-1 - Ammonia Plant Primary Reformer

- 21 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- 22 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- 23 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 24 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT005 A-2 - Ammonia Tank Flare

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### EQT005      A-2 - Ammonia Tank Flare

25 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1105]

Which Months: All Year   Statistical Basis: None Specified

26 Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets.

Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours. [LAC 33:III.1105]

27 Presence of a flame recordkeeping by electronic or hard copy continuously. The loss of the flame will cause an alarm to sound in the control room and the event will be recorded. [LAC 33:III.501.C.6]

28 Flare gas: Heat content > 300 BTU/scf, to ensure destruction of emissions to the flare stack. [LAC 33:III.501.C.6]

Which Months: All Year   Statistical Basis: None Specified

29 Flare gas: Heat content monitored by gas analysis annually, to insure the heat content is above 300 BTU/scf. [LAC 33:III.501.C.6]

Which Months: All Year   Statistical Basis: None Specified

30 Presence of a flame monitored by heat sensing device continuously. [LAC 33:III.501.C.6]

Which Months: All Year   Statistical Basis: None Specified

31 Flare gas: Heat content recordkeeping by electronic or hard copy annually. [LAC 33:III.501.C.6]

### EQT006      UT-1 - Bulk Gasoline Storage Tank

32 Equip with a submerged fill pipe. [LAC 33:II.2103.A]

33 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

34 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

### EQT007      A-4 - Ammonia Plant Startup Heater

35 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year   Statistical Basis: None Specified

36 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year   Statistical Basis: None Specified

37 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

### EQT008      G-A COOLER - Granulation A Train Cooler Scrubber

38 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

39 Scrubbing liquid: Flow rate >= 514.0 and <= 771.0 gallons/min. Subpart BB. [40 CFR 63.624]

Which Months: All Year   Statistical Basis: Three-hour average

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-Y0

Air - Title V Regular Permit Initial

### **EQT008 G-AACOOLER - Granulation A Train Cooler Scrubber**

- 40 Pressure drop  $\geq 15.4$  and  $\leq 23.0$  inches w.c. differential. Subpart BB. [40 CFR 63.624]  
Which Months: All Year Statistical Basis: Three-hour average
- 41 Pressure drop monitored by CMS continuously. Equip with a continuous recorder and monitor the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(1)]  
Which Months: All Year Statistical Basis: None specified
- 42 Flow rate monitored by CMS continuously. Equip with a continuous recorder and monitor the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(2)]  
Which Months: All Year Statistical Basis: None specified
- 43 Establish, and provide to DEQ for approval, allowable ranges for the daily averages of the pressure drop across and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system for the purpose of assuring compliance with 40 CFR 63 Subpart BB. Certify that the control devices and processes have not been modified subsequent to the testing upon which the data used to establish the allowable ranges were obtained. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification if the conditions outlined in 40 CFR 70.4(b)(12) and 502(b)(10) of the Clean Air Act are satisfied, and can be incorporated under an administrative amendment. Subpart BB. [40 CFR 63.625(f)(2)]

### **EQT009 G-BCOOLER - Granulation B Train Cooler Scrubber**

- 44 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDD). [LAC 33:III.5107.A.2]
- 45 Scrubbing liquid: Flow rate  $\geq 482.0$  and  $\leq 728.0$  gallons/min. Subpart BB. [40 CFR 63.624]  
Which Months: All Year Statistical Basis: Three-hour average
- 46 Pressure drop  $\geq 15.4$  and  $\leq 26.4$  inches w.c. differential. Subpart BB. [40 CFR 63.624]  
Which Months: All Year Statistical Basis: Three-hour average
- 47 Pressure drop monitored by CMS continuously. Equip with a continuous recorder and monitor the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(1)]  
Which Months: All Year Statistical Basis: None specified
- 48 Flow rate monitored by CMS continuously. Equip with a continuous recorder and monitor the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(2)]  
Which Months: All Year Statistical Basis: None specified
- 49 Establish, and provide to DEQ for approval, allowable ranges for the daily averages of the pressure drop across and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system for the purpose of assuring compliance with 40 CFR 63 Subpart BB. Certify that the control devices and processes have not been modified subsequent to the testing upon which the data used to establish the allowable ranges were obtained. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification if the conditions outlined in 40 CFR 70.4(b)(12) and 502(b)(10) of the Clean Air Act are satisfied, and can be incorporated under an administrative amendment. Subpart BB. [40 CFR 63.625(f)(2)]

### **EQT010 A-7 - Hydrate Lime Silo #1**

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

### EQT010      A-7 - Hydrate Lime Silo #1

50 Total suspended particulate  $\leq$  25.54 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year   Statistical Basis: None specified  
51 Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC

33:III.1311.C]

52 Particulate matter (10 microns or less)  $\geq$  95.0 % removal efficiency. [LAC 33:III.501.C.6]

Which Months: All Year   Statistical Basis: None specified  
53 Filter vents: Visible emissions monitored by visual inspection/determination upon each occurrence. Monitor at a minimum once per day during each unloading of lime from a

truck into the Silo. [LAC 33:III.501.C.6]

54 Filter vents: Visible emissions recordkeeping by electronic or hard copy upon each occurrence. Keep records of visual checks on site and available for inspection by the Office

of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

55 Filter elements (bags): Equipment/operational data monitored by technically sound method once every six months or whenever visual checks indicate maintenance may be necessary. Change elements as necessary. [LAC 33:III.501.C.6]

56 Filter elements (bags): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on

site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

### EQT011      UT-2 - Backup Water Treatment Lime Silo

57 Total suspended particulate  $\leq$  25.54 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year   Statistical Basis: None specified  
58 Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC

33:III.1311.C]

59 Particulate matter (10 microns or less)  $\geq$  99.9 % removal efficiency. [LAC 33:III.501.C.6]

Which Months: All Year   Statistical Basis: None specified  
60 Filter vents: Visible emissions monitored by visual inspection/determination upon each occurrence. Monitor at a minimum once per day during each unloading of lime from a

truck into the Silo. [LAC 33:III.501.C.6]

61 Filter vents: Visible emissions recordkeeping by electronic or hard copy upon each occurrence. Keep records of visual checks on site and available for inspection by the Office

of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

62 Filter elements (bags): Equipment/operational data monitored by technically sound method once every six months or whenever visual checks indicate maintenance may be necessary. Change elements as necessary. [LAC 33:III.501.C.6]

Which Months: All Year   Statistical Basis: None specified  
63 Filter elements (bags): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on

site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

### EQT018      UT-4A - Sulfur Storage Tank A-5-1

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### EQT018      UT-4A - Sulfur Storage Tank A-5-1

64 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year   Statistical Basis: Six-minute average

65 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT019      UT-4B - Sulfur Storage Tank A-5-2

66 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year   Statistical Basis: Six-minute average

67 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT022      UT-3 - 1st and 2nd Stage Water Treatment Lime Silo

68 Total suspended particulate <= 25.54 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year   Statistical Basis: None specified

69 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year   Statistical Basis: Six-minute average

70 Particulate matter (10 microns or less) >= 99.9 % removal efficiency. [LAC 33:III.501.C.6]

Which Months: All Year   Statistical Basis: None specified

71 Filter vents: Visible emissions monitored by visual inspection/determination upon each occurrence. Monitor at a minimum once per day during each unloading of lime from a truck into the Silo. [LAC 33:III.501.C.6]

Which Months: All Year   Statistical Basis: None specified

72 Filter vents: Visible emissions recordkeeping by electronic or hard copy upon each occurrence. Keep records of visual checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

73 Filter elements (bags): Equipment/operational data monitored by technically sound method once every six months or whenever visual checks indicate maintenance may be necessary. Change elements as necessary. [LAC 33:III.501.C.6]

Which Months: All Year   Statistical Basis: None specified

74 Filter elements (bags): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

### EOT041      UT-6 - Sulfuric Acid Tank T-AG-1

75 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT042      UT-7 - Sulfuric Acid Tank T-AG-2

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

### EQT042      UT-7 - Sulfuric Acid Tank T-AG-2

76 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT043      A-8 - Hydrate Lime Silo #2

77 Total suspended particulate <= 25.54 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]  
Which Months: All Year Statistical Basis: None specified  
78 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

79 Particulate matter (10 microns or less) >= 95.0 % removal efficiency. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

80 Filter vents: Visible emissions monitored by visual inspection/determination upon each occurrence. Monitor at a minimum once per day during each unloading of lime from a truck into the Silo. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

81 Filter vents: Visible emissions recordkeeping by electronic or hard copy upon each occurrence. Keep records of visual checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

82 Filter elements (bags): Equipment/operational data monitored by technically sound method once every six months or whenever visual checks indicate maintenance may be necessary. Change elements as necessary. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

83 Filter elements (bags): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

### EQT069      UT-8 - Gypsum Pond Gasoline Tank

84 Equip with a submerged fill pipe. [LAC 33:III.2103.A]  
85 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]  
86 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

### EQT077      G-ACID N - N. Phos Acid Storage

87 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT078      G-ACID S - S. Phos Acid Storage

88 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT079      G-ACID E - E. Phos Acid Storage

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### EQT079 G-ACID E - E. Phos Acid Storage

- 89 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT080 G-ACID W - W. Phos Acid Storage

- 90 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT083 AUT-1 - Utility Boiler #2

- 91 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None Specified

92 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None Specified

93 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

94 Nitrogen oxides <= 0.08 lb/MMBTU. At a maximum boiler rating of 204.0 MM Btu/hr the emission rate equals 16.32 lbs/hr NOx. [LAC 33:III.509]

Which Months: All Year Statistical Basis: None Specified

95 Nitrogen oxides <= 0.20 lb/MMBTU (86 ng/J) heat input (expressed as NO<sub>2</sub>). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db. [40 CFR 60.44b]

Which Months: All Year Statistical Basis: None Specified

96 Excess Oxygen monitored by CMS continuously. Subpart Db. [40 CFR 60.48b(g)]

Which Months: All Year Statistical Basis: One-hour average

97 Operate Oxygen continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(g)]

98 Follow the procedures under 40 CFR 60.13 for installation, evaluation, and operation of the Oxygen continuous monitoring system. Subpart Db. [40 CFR 60.48b(g)]

99 When flue gas excess oxygen level data is not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain oxygen data by using standby monitoring systems, or other approved methods to provide oxygen level data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(g)]

100 Monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in the plan submitted pursuant to 60.49b(c). Subpart Db. [40 CFR 60.48b(g)]

101 Excess Oxygen >= 2.0 and <= 7.8 % of flue gas when the steam flow rate is between 74,700 and 153,700 lbs/hr. [40 CFR 60.48b(g)]

Which Months: Phases: Statistical Basis: Hourly average

102 Excess flue gas Oxygen recordkeeping by CMS hourly. Subpart Db. [40 CFR 60.48b(g)]

103 Steam Flow rate monitored by flow rate monitoring device continuously. Subpart Db. [40 CFR 60.48b(g)]

Which Months: All Year Statistical Basis: One-hour average

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### EQT083      AUT-1 - Utility Boiler #2

- 104 Submit plan: Due within 360 days of initial startup to DEQ for approval. The plan must identify the operating conditions to be monitored under 40 CFR 60.49b(g)(2), the records to be maintained under 40 CFR 60.49b(g), and all other information as specified in 40 CFR 60.49b(c)(1) through (c)(3). If the plan is approved, maintain records of predicted nitrogen oxide emission rates and the monitored operating conditions, including steam generating unit load, identified in the plan. Plan was received February 11, 2000 and is approved and incorporated within this permit. Subpart Db. [40 CFR 60.49b(c)]
- 105 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day. Subpart Db. [40 CFR 60.49b(d)]
- 106 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(d). Subpart Db. [40 CFR 60.49b(g)]
- 107 Fuel rate monitored by flow rate monitoring device hourly. Subpart Db. [40 CFR 60.49b(g)]
- 108 Which Months: All Year Statistical Basis: None specified  
Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period.
- Subpart Db. [40 CFR 60.49b(h)]
- 109 Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- 110 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]

### EQT095      G-AFUME - Granulation A Train Fumes Scrubber

- 111 pH <= 6.6 s.u. [LAC 33:III.501.C.6]  
Which Months: Phases: Statistical Basis: Instantaneous determination
- 112 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the pH ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 113 Conduct a performance/emissions test: Due within five years (plus or minus 3 months) after the previous performance test. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with EPA Conditional Test Method 027 - Procedure for Collection and Analysis of Ammonia in Stationary Sources, (CTM-027). Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 114 pH monitored by pH instrument once every four hours. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified
- 115 pH recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]
- 116 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pre-test meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 117 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 118 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEIDI). [LAC 33:III.5107.A.2]
- 119 Total Scrubbing liquid: Flow rate >= 720.0 and <= 1080.0 gallons/min split between the ringheader and the cone. Subpart BB. [40 CFR 63.624]  
Which Months: All Year Statistical Basis: Three-hour average
- 120 Pressure drop >= 9.4 and <= 14.0 inches w.c. differential. This reading is for both the first and second stages; the entire scrubber. Subpart BB. [40 CFR 63.624]  
Which Months: All Year Statistical Basis: Three-hour average

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-0002-1-V0  
Air - Title V Regular Permit Initial

### **EQT095 G-AFUME - Granulation A Train Fumes Scrubber**

- 121 Pressure drop monitored by CMS continuously. Equip with a continuous recorder and monitor the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(1)]  
Which Months: All Year Statistical Basis: None specified
- 122 Cone Flow rate monitored by CMS continuously. Equip with a continuous recorder and monitor the flow rate of the scrubbing liquid to the cone portion of the scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(2)]  
Which Months: All Year Statistical Basis: None specified
- 123 Ringheader Flow rate monitored by CMS continuously. Equip with a continuous recorder and monitor the flow rate of the scrubbing liquid to the ringheader portion of the scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(2)]
- 124 Establish, and provide to DEQ for approval, allowable ranges for the daily averages of the pressure drop across and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system for the purpose of assuring compliance with 40 CFR 63 Subpart BB. Certify that the control devices and processes have not been modified subsequent to the testing upon which the data used to establish the allowable ranges were obtained. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification if the conditions outlined in 40 CFR 70.4(b)(12) and 502(b)(10) of the Clean Air Act are satisfied, and can be incorporated under an administrative amendment. Subpart BB. [40 CFR 63.625(f)(2)]

### **EQT096 G-BFUME - Granulation B Train Fumes Scrubber**

- 125 pH <= 6.6 s.u. [LAC 33.III.501.C.6]  
Which Months: Phases: Statistical Basis: Instantaneous determination
- 126 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the pH ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33.III.501.C.6]
- 127 Conduct a performance/emissions test: Due within five years (plus or minus 3 months) after the previous performance test. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with EPA Conditional Test Method 027 - Procedure for Collection and Analysis of Ammonia in Stationary Sources (CTM-027). Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33.III.91<sup>13</sup>, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33.III.501.C.6]
- 128 pH monitored by pH instrument once every four hours. [LAC 33.III.501.C.6]  
Which Months: All Year Statistical Basis: None specified
- 129 pH recordkeeping by electronic or hard copy once every four hours. [LAC 33.III.501.C.6]
- 130 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33.III.501.C.6]
- 131 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33.III.501.C.6]
- 132 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33.III.5105.B. (TEDI). [LAC 33.III.5107.A.2]
- 133 Total Scrubbing Liquid: Flow rate >= 698.0 and <= 1085.0 gallons/min split between the ringheader and the cone. Subpart BB. [40 CFR 63.624]  
Which Months: All Year Statistical Basis: Three-hour average

## **SPECIFIC REQUIREMENTS**

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### **EQT096 G-BFUME - Granulation B Train Fumes Scrubber**

134 Pressure drop  $\geq 10.3$  and  $\leq 18.7$  inches w.c. differential. This reading is for both the first and second stages; the entire scrubber. Subpart BB. [40 CFR 63.624]

Which Months: All Year Statistical Basis: Three-hour average

135 Pressure drop monitored by CMS continuously. Equip with a continuous recorder and monitor the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(1)]

Which Months: All Year Statistical Basis: None specified

136 Ringheader Flow rate monitored by CMS continuously. Equip with a continuous recorder and monitor the flow rate of the scrubbing liquid to the ringheader portion of the scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(2)]

Which Months: All Year Statistical Basis: None specified

137 Cone Flow rate monitored by CMS continuously. Equip with a continuous recorder and monitor the flow rate of the scrubbing liquid to the cone portion of the scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(2)]

Which Months: All Year Statistical Basis: None specified

138 Establish, and provide to DEQ for approval, allowable ranges for the daily averages of the pressure drop across and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system for the purpose of assuring compliance with 40 CFR 63 Subpart BB. Certify that the control devices and processes have not been modified subsequent to the testing upon which the data used to establish the allowable ranges were obtained. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification if the conditions outlined in 40 CFR 70.4(b)(12) and 502(b)(10) of the Clean Air Act are satisfied, and can be incorporated under an administrative amendment. Subpart BB. [40 CFR 63.625(f)(2)]

### **EQT097 G-ATAIL - Granulation A Train Tail Gas Scrubber**

139 Conduct a performance/emissions test: Due within five years (plus or minus 3 months) after the previous performance test. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with EPA Conditional Test Method 027 - Procedure for Collection and Analysis of Ammonia in Stationary Sources, (CTM-027). Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]

140 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]

141 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

142 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

143 Scrubbing liquid: Flow rate  $\geq 467.0$  and  $\leq 701.0$  gallons/min. Subpart BB. [40 CFR 63.624]

Which Months: All Year Statistical Basis: Three-hour average

144 Pressure drop  $\geq 3.4$  and  $\leq 5.2$  inches w.c. differential. Subpart BB. [40 CFR 63.624]

Which Months: All Year Statistical Basis: Three-hour average

145 Pressure drop monitored by CMS continuously. Equip with a continuous recorder and monitor the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(1)]

Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### EQT097 G-ATAIL - Granulation A Train Tail Gas Scrubber

- 146 Flow rate monitored by CMS continuously. Equip with a continuous recorder and monitor the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(2)]  
Which Months: All Year Statistical Basis: None specified
- 147 Establish, and provide to DEQ for approval, allowable ranges for the daily averages of the pressure drop across and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system for the purpose of assuring compliance with 40 CFR 63 Subpart BB. Certify that the control devices and processes have not been modified subsequent to the testing upon which the data used to establish the allowable ranges were obtained. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification if the conditions outlined in 40 CFR 70.4(b)(12) and 502(b)(10) of the Clean Air Act are satisfied, and can be incorporated under an administrative amendment. Subpart BB. [40 CFR 63.625(f)(2)]

### EQT098 G-BTAIL - Granulation B Train Tail Gas Scrubber

- 148 Conduct a performance/emissions test: Due within five years (plus or minus 3 months) after the previous performance test. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with EPA Conditional Test Method 027 - Procedure for Collection and Analysis of Ammonia in Stationary Sources, (CTM-027). Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 149 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 150 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 151 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]
- 152 Scrubbing liquid: Flow rate  $\geq$  507.0 and  $\leq$  777.0 gallons/min. Subpart BB. [40 CFR 63.624]
- Which Months: All Year Statistical Basis: Three-hour average
- 153 Pressure drop  $\geq$  1.8 and  $\leq$  3.0 inches w.c. differential. Subpart BB. [40 CFR 63.624]
- Which Months: All Year Statistical Basis: Three-hour average
- 154 Pressure drop monitored by CMS continuously. Equip with a continuous recorder and monitor the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- 155 Flow rate monitored by CMS continuously. Equip with a continuous recorder and monitor the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(2)]
- Which Months: All Year Statistical Basis: None specified

## **SPECIFIC REQUIREMENTS**

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### **EQT098 G-BTAIL - Granulation B Train Tail Gas Scrubber**

156 Establish, and provide to DEQ for approval, allowable ranges for the daily averages of the pressure drop across and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system for the purpose of assuring compliance with 40 CFR 63 Subpart BB. Certify that the control devices and processes have not been modified subsequent to the testing upon which the data used to establish the allowable ranges were obtained. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification if the conditions outlined in 40 CFR 70.4(b)(12) and 502(b)(10) of the Clean Air Act are satisfied, and can be incorporated under an administrative amendment. Subpart BB. [40 CFR 63.625(f)(2)]

### **EQT099 G-CTAIL - Granulation C Train Tail Gas Scrubber**

- 157 pH <= 6.6 s.u. when producing DAP. [LAC 33:III.501.C.6]  
Which Months: Phases: Statistical Basis: Instantaneous determination
- 158 pH <= 8.0 s.u. when producing MAP. [LAC 33:III.501.C.6]  
Which Months: Phases: Statistical Basis: Instantaneous determination
- 159 pH recordkeeping by electronic or hard copy once every four hours. Also record the product being produced at the time the pH was measured. [LAC 33:III.501.C.6]
- 160 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the pH ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 161 Conduct a performance/emissions test: Due within five years (plus or minus 3 months) after the previous performance test. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with EPA Conditional Test Method 027 - Procedure for Collection and Analysis of Ammonia in Stationary Sources, (CTM-027). Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 162 pH monitored by pH instrument once every four hours. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified
- 163 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 164 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 165 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TED). [LAC 33:III.5107.A.2]
- 166 Scrubbing liquid: Flow rate >= 3199.0 and <= 5312.0 gallons/min. Subpart BB. [40 CFR 63.624]  
Which Months: All Year Statistical Basis: Three-hour average
- 167 Pressure drop >= 2.5 and <= 4.9 inches w.c. differential. Subpart BB. [40 CFR 63.624]  
Which Months: All Year Statistical Basis: Three-hour average
- 168 Pressure drop monitored by CMS continuously. Equip with a continuous recorder and monitor the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(1)]  
Which Months: All Year Statistical Basis: None specified
- 169 Flow rate monitored by CMS continuously. Equip with a continuous recorder and monitor the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system in 15-minute block averages. Subpart BB. [40 CFR 63.625(c)(2)]  
Which Months: All Year Statistical Basis: None specified

## **SPECIFIC REQUIREMENTS**

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### **EQT099      G-CTAIL - Granulation C Train Tail Gas Scrubber**

170 Establish, and provide to DEQ for approval, allowable ranges for the daily averages of the pressure drop across and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system for the purpose of assuring compliance with 40 CFR 63 Subpart BB. Certify that the control devices and processes have not been modified subsequent to the testing upon which the data used to establish the allowable ranges were obtained. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification if the conditions outlined in 40 CFR 70.4(b)(12) and 502(b)(10) of the Clean Air Act are satisfied, and can be incorporated under an administrative amendment. Subpart BB. [40 CFR 63.625(f)(2)]

### **EQT102      A-5 - Ammonia Plant Cooling Tower**

171 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT103      A-10 - Sour Oil Degasifier 105J**

172 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT104      A-11 - Ammonia Plant Sulfuric Acid Storage Tank**

173 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT105      A-12 - Utilities Sulfuric Acid Storage Tank**

174 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT107      A-9 - Sour Oil Degasifier 103J**

175 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT108      G-A1STSTG - Granulation A 1st Stage Scrubber**

176 Flow rate >= 2310.0 gallons/min. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Daily average  
177 Establish, and provide to DEQ for approval, allowable ranges for the daily average of the flow rate of the scrubbing liquid. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification but can be incorporated under an administrative amendment. [LAC 33:III.501.C.6]

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

### EQT108 G-A1STSTG - Granulation A 1st Stage Scrubber

178 Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

179 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]

180 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

181 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT109 G-ACID C - C-54 Acid Storage Tank

182 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT110 G-ACID F - FURC Acid Storage Tank

183 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT111 G-ADRYER - Granulation A Dryer Scrubber

184 Flow rate  $\geq 641.0$  gallons/min. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Daily average

185 Establish, and provide to DEQ for approval, allowable ranges for the daily average of the flow rate of the scrubbing liquid. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification but can be incorporated under an administrative amendment. [LAC 33:III.501.C.6]

186 Conduct a performance/emissions test: Due within five years (plus or minus 3 months) after the previous performance test. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with EPA Conditional Test Method 027 - Procedure for Collection and Analysis of Ammonia in Stationary Sources, (CTM-027). Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]

187 Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

188 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]

189 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

190 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]

191 Submit report: Due within 60 days after performance/emissions test: Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

## **SPECIFIC REQUIREMENTS**

**AI ID:** 2425 - Mosaic Fertilizer LLC - Faustina Plant  
**Activity Number:** PER19960001  
**Permit Number:** 2560-00021-V0  
**Air - Title V Regular Permit Initial**

### **EQT111 G-ADRYER - Granulation A Dryer Scrubber**

192 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT112 G-ADUST - Granulation A Dust Scrubber**

193 Flow rate  $\geq$  240.0 gallons/min. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Daily average  
194 Establish, and provide to DEQ for approval, allowable ranges for the daily average of the flow rate of the scrubbing liquid. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification but can be incorporated under an administrative amendment. [LAC 33:III.501.C.6]  
195 Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified  
196 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]  
197 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

### **EQT113 G-B1STSTG - Granulation B 1st Stage Scrubber**

198 Flow rate  $\geq$  2004.0 gallons/min. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Daily average  
199 Establish, and provide to DEQ for approval, allowable ranges for the daily average of the flow rate of the scrubbing liquid. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification but can be incorporated under an administrative amendment. [LAC 33:III.501.C.6]  
200 Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified  
201 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]  
202 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

### **EQT114 G-BDRYER - Granulation B Dryer Scrubber**

203 Flow rate  $\geq$  650.0 gallons/min. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Daily average

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### EQT114 G-BDRYER - Granulation B Dryer Scrubber

- 204 Establish, and provide to DEQ for approval, allowable ranges for the daily average of the flow rate of the scrubbing liquid. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification but can be incorporated under an administrative amendment. [LAC 33:III.501.C.6]
- 205 Conduct a performance/emissions test: Due within five years (plus or minus 3 months) after the previous performance test. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with EPA Conditional Test Method 027 - Procedure for Collection and Analysis of Ammonia in Stationary Sources. (CTM-027). Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 206 Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified
- 207 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]
- 208 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 209 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 210 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 211 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT115 G-BDUST - Granulation B Dust Scrubber

- 212 Flow rate  $\geq$  246.0 gallons/min. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Daily average
- 213 Establish, and provide to DEQ for approval, allowable ranges for the daily average of the flow rate of the scrubbing liquid. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification but can be incorporated under an administrative amendment. [LAC 33:III.501.C.6]
- 214 Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified
- 215 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]
- 216 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

### EQT116 G-COOLER - Granulation C Train Cooler Scrubber

## SPECIFIC REQUIREMENTS

All ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### EQT116 G-COOLER - Granulation C Train Cooler Scrubber

- 217 Flow rate >= 1023.0 gallons/min. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Daily average
- 218 Establish, and provide to DEQ for approval, allowable ranges for the daily average of the flow rate of the scrubbing liquid. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification but can be incorporated under an administrative amendment. [LAC 33:III.501.C.6]
- 219 Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified
- 220 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]
- 221 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

### EQT117 G-CDRYER - Granulation C Dryer Scrubber

- 222 Flow rate >= 1617.0 gallons/min. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Daily average
- 223 Establish, and provide to DEQ for approval, allowable ranges for the daily average of the flow rate of the scrubbing liquid. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Department's approval need not be in the form of a permit modification but can be incorporated under an administrative amendment. [LAC 33:III.501.C.6]
- 224 Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified
- 225 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]
- 226 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

### EQT118 G-CONVEYOR - Conveyor System Transfer Points

- 227 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 228 Total suspended particulate <= 61.0 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]  
Which Months: All Year Statistical Basis: None specified

### EQT119 G-CREACTN - Granulation C Reaction Scrubber

- 229 Flow rate >= 393.0 gallons/min. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Daily average

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### EQT119 G-CREACTN - Granulation C Reaction Scrubber

230 Establish, and provide to DEQ for approval, allowable ranges for the daily average of the flow rate of the scrubbing liquid. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Departments approval need not be in the form of a permit modification but can be incorporated under an administrative amendment. [LAC 33:III.501.C.6]

231 Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified

232 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]

233 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

### EQT120 G-CRG - Granulation C RG Scrubber

234 Total Flow rate  $\geq$  844.0 gallons/min split between the granulator cone and ring header. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Daily average

235 Flow rate  $\geq$  250.0 gallons/min routed to the granulator header. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified

236 Granulator Cone Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified

237 Granulator Cone Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]

238 Granulator Ring Header Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified

239 Granulator Ring Header Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]

240 Establish, and provide to DEQ for approval, allowable ranges for the daily average of the flow rates of the scrubbing liquid. Request and obtain approval of DEQ for changes to the allowable ranges. Determine new allowable ranges of baseline average values when retesting unless the retest indicates no change in the operating parameters outside the previously established ranges. The new baseline value is effective on the 31st day following submission, if DEQ has not denied approval of the new operating ranges within 30 days of submission of the performance test results. The Departments approval need not be in the form of a permit modification but can be incorporated under an administrative amendment. [LAC 33:III.501.C.6]

241 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

### EQT121 G-HOLDTK1 - Granulation Runoff Water Holding Tank No. 1

242 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT122 G-HOLDTK2 - Granulation Runoff Water Holding Tank No. 2

243 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### EQT123 UT-10 - Utilities Emergency Generator

244 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

245 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

### EQT124 UT-11 - Utilities Emergency Air Compressor

246 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

247 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

### EQT125 UT-12 - Utilities Emergency Fire Pump

248 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

249 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

### FUG008 G-FUG - Granulation Plant Fugitives

250 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

251 Total suspended particulate <= 57.49 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year Statistical Basis: None specified

252 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TDD). [LAC 33:III.5107.A.2]

### FUG009 A-6 - Ammonia Plant Fugitives

253 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TDD). [LAC 33:III.5107.A.2]

### FUG011 U-FUG-1 - Utility Plant Fugitives

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant

Activity Number: PER19960001

Permit Number: 2560-00021-V0

Air - Title V Regular Permit Initial

### FUG011    U-FUG-1 - Utility Plant Fugitives

- 254 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### GRP020    UT-4 - Sulfur Handling Facility CAP

- 255 Total suspended particulate <= 56.55 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]  
Which Months: All Year Statistical Basis: None specified  
256 Sulfur <= 1.46 MM long tons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if total facility receipts of sulfur exceeds the maximum listed in this specific condition for any twelve consecutive month period. Actual sulfur receipts will be allocated between trucks, railcars and barges. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Twelve-consecutive-month maximum  
257 Sulfur Throughput recordkeeping by electronic or hard copy monthly. Keep records of the total sulfur receipts each month, as well as the total sulfur receipts for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]  
258 Sulfur Throughput monitored by technically sound method as needed. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified  
259 Submit report Due annually, by the 31st of March. Report the total sulfur receipts for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

### GRP022    G-ATRAIN - Granulation A Train CAP

- 260 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]  
261 Total fluorides <= 0.060 lb/ton (30 g/metric ton) of equivalent P2O5 feed. Subpart BB. [40 CFR 63.622(a)]  
Which Months: All Year Statistical Basis: None specified  
262 Flow monitored by technically sound method continuously. Equip with a recorder and determine the mass flow of phosphorus-bearing feed material to the process. Subpart BB. [40 CFR 63.625(a)]  
Which Months: All Year Statistical Basis: None specified

- 263 Maintain a daily record of equivalent P2O5 feed by first determining the total mass rate in metric ton/hr of phosphorus bearing feed using a monitoring system for measuring mass flowrate which meets the requirements of 40 CFR 63.625(a) and then by proceeding according to 40 CFR 63.626(c)(3). Subpart BB. [40 CFR 63.625(b)]

### GRP023    G-BTRAIN - Granulation B Train CAP

- 264 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]  
265 Total fluorides <= 0.060 lb/ton (30 g/metric ton) of equivalent P2O5 feed. Subpart BB. [40 CFR 63.622(a)]  
Which Months: All Year Statistical Basis: None specified  
266 Flow monitored by technically sound method continuously. Equip with a recorder and determine the mass flow of phosphorus-bearing feed material to the process. Subpart BB. [40 CFR 63.625(a)]  
Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
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### GRP023 G-BTRAIN - Granulation B Train CAP

267 Maintain a daily record of equivalent P2O5 feed by first determining the total mass rate in metric ton/hr of phosphorus bearing feed using a monitoring system for measuring mass flowrate which meets the requirements of 40 CFR 63.625(a) and then by proceeding according to 40 CFR 63.626(c)(3). Subpart BB. [40 CFR 63.625(b)]

### GRP025 Entire Facility

- 268 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 269 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]
- 270 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 271 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 272 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. (State Only). [LAC 33:III.219]
- 273 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 274 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 275 Particulate matter (10 microns or less) <= 469.60 tons/yr. [LAC 33:III.501.C.6]
- 276 Which Months: All Year Statistical Basis: Annual maximum Sulfur dioxide <= 7.57 tons/yr. [LAC 33:III.501.C.6]
- 277 Which Months: All Year Statistical Basis: Annual maximum VOC, Total <= 170.70 tons/yr. [LAC 33:III.501.C.6]
- 278 Which Months: All Year Statistical Basis: Annual maximum Carbon monoxide <= 514.50 tons/yr. [LAC 33:III.501.C.6]
- 279 Which Months: All Year Statistical Basis: Annual maximum Nitrogen oxides <= 893.05 tons/yr. [LAC 33:III.501.C.6]
- 280 Which Months: All Year Statistical Basis: Annual maximum Ammonia <= 1679.08 tons/yr. [LAC 33:III.501.C.6]
- 281 Which Months: All Year Statistical Basis: Annual maximum Total fluorides <= 91.27 tons/yr. [LAC 33:III.501.C.6]
- 282 Which Months: All Year Statistical Basis: Annual maximum Benzene <= 0.009 tons/yr. [LAC 33:III.501.C.6]
- 283 Which Months: All Year Statistical Basis: Annual maximum Toluene <= 0.015 tons/yr. [LAC 33:III.501.C.6]
- 284 Which Months: All Year Statistical Basis: Annual maximum Formaldehyde <= 0.32 tons/yr. [LAC 33:III.501.C.6]
- 285 Which Months: All Year Statistical Basis: Annual maximum

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-Y0  
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### GRP025      Entire Facility

- 285 Dichlorobenzene <= 0.005 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum  
286 Chlorine <= 0.11 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum  
287 Hydrofluoric acid <= 0.43 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum  
288 Methanol <= 139.30 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum  
289 Sulfuric acid <= 0.004 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum  
290 Hydrogen sulfide <= 10.05 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum  
291 Phosphoric acid <= 0.022 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum  
292 Comply with the requirements of PSD-LA-602. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-602. A permit application to modify the PSD permit shall be submitted within 6 months of the issuance of this permit to correct the PSD permit to reflect the "as purchased" Boiler AUT-1. [LAC 33:III.509]
- 293 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III. Chapter 51. Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III. Chapter 51. Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 294 Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 295 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 296 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III. Chapter 51. Subchapter A. [LAC 33:III.5105.A.4]
- 297 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 298 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 299 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 300 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.2]

## **SPECIFIC REQUIREMENTS**

**AI ID:** 2425 - Mosaic Fertilizer LLC - Faustina Plant

**Activity Number:** PER19960001

**Permit Number:** 2560-00021-V0

**Air - Title V Regular Permit Initial**

### **GRP025      Entire Facility**

- 301 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:1.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:1.3923. [LAC 33:III.5107.B.3]
- 302 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 303 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 304 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 305 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. [LAC 33:III.5109.B]
- 306 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 307 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:I.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 308 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 309 Apply for a permit in accordance with LAC 33:III.5111.B, for any existing major source which is operating without a Louisiana Air Permit, or which is not fully permitted, or for any minor source that was once a major source. [LAC 33:III.5111.A.4]
- 310 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A.]
- 311 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 312 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 313 Provide emission testing facilities as specified in LAC 33:III.5113.B.4 through e. [LAC 33:III.5113.B.4]
- 314 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 315 Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 316 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 317 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 318 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-Y0  
Air - Title V Regular Permit Initial

### GRP025      Entire Facility

- 319 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 320 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 321 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 322 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 323 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 324 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 325 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 326 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 327 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 328 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 329 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.5151.F.1.f]
- 330 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 331 Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 332 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 333 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 334 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 335 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 336 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]
- 337 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]

## SPECIFIC REQUIREMENTS

**AID:** 2425 - Mosaic Fertilizer LLC - Faustina Plant  
**Activity Number:** PER19960001  
**Permit Number:** 2560-00021-V0  
**Air - Title V Regular Permit Initial**

### GRP025    Entire Facility

- 338 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33.III.919.A-D [LAC 33.III.919.D]
- 339 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]
- 340 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 341 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61.]
- 342 Comply with the notification requirements in 40 CFR 63.9. Subpart BB. [40 CFR 63.627(a)]
- 343 Comply with the recordkeeping requirements in 40 CFR 63.10. Subpart BB. [40 CFR 63.627(b)]
- 344 Report the results of the initial and annual performance tests as part of the notification of compliance status required in 40 CFR 63.9. Subpart BB. [40 CFR 63.627(c)(1)]
- 345 Submit excess emissions report: Due semiannually by the 30th day following the end of the calendar half. Submit report for any exceedance of an operating parameter limit and include the information specified in 40 CFR 63.10. When no exceedances of an operating parameter have occurred, include such information in the report. Subpart BB. [40 CFR 63.627(c)(2)]
- 346 Submit summary report: Due semiannually by the 30th day following the end of the calendar half, in lieu of the full excess emissions report, if the total duration of control system exceedances for the reporting period is less than 1 percent of the total operating time for the reporting period. Include the information specified in 40 CFR 63.10. Subpart BB. [40 CFR 63.627(c)(3)]
- 347 Submit a summary report and an excess emissions report if the total duration of control system operating parameter exceedances for the reporting period is 1 percent or greater of the total operating time for the reporting period. Subpart BB. [40 CFR 63.627(c)(4)]
- 348 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table Appendix A of 40 CFR 63 Subpart BB. [40 CFR 63.]
- 349 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 350 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 351 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 352 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 353 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82 Subpart F]

### GRP027    G-TRAIN - Granulation C Train

- 354 Total fluorides <= 0.060 lb/ton (30 g/metric ton) of equivalent P2O5 feed. Subpart BB. [40 CFR 63.622(a)]
- Which Months: All Year   Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-Y0  
Air - Title V Regular Permit Initial

### GRP027 G-CTRAIN - Granulation C Train

- 355 Flow monitored by technically sound method continuously. Equip with a recorder and determine the mass flow of phosphorus-bearing feed material to the process. Subpart BB.  
[40 CFR 63.625(a)]  
Which Months: All Year Statistical Basis: None specified  
356 Maintain a daily record of equivalent P2O5 feed by first determining the total mass rate in metric ton/hr of phosphorus bearing feed using a monitoring system for measuring mass flowrate which meets the requirements of 40 CFR 63.625(a) and then by proceeding according to 40 CFR 63.626(c)(3). Subpart BB. [40 CFR 63.625(b)]

### GRP028 UT-9 - Portable Diesel-Fired Equipment

- 357 Equipment/operational data: <= 1.03 million horsepower hours from portable diesel fired equipment. Noncompliance with this limitation is a reportable violation of the permit.  
Notify the Office of Environmental Compliance, Enforcement Division if total horsepower hours exceeds the maximum listed in this specific condition for any twelve consecutive month period. (State Only) [LAC 33:III.501.C.6] The list of authorized equipment at normal operations is as follows:  
68 hp generator at 240 hrs/yr  
700 hp generator at 576 hrs/yr  
6-inch pump at 70 hp for 2000 hrs/yr  
3-inch pump at 18 hp for 8400 hrs/yr  
Rental pumps at maximum of 75 hp for 2160 hrs/yr  
Hydroblast Rig at 126 hp for 1248 hrs/yr. [LAC 33:III.501.C.6]  
358 Equipment/operational data monitored by technically sound method as needed. Monitor all portable diesel fired equipment for operating hours and associated engine horsepower rating as necessary. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified  
359 Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total operating horsepower hours each month, as well as the total operating horsepower hours for the last twelve months for all portable diesel fired equipment. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]  
360 Submit report: Due annually, by the 31st of March. Report the operating horsepower hours for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

### GRP029 Train A producing MAP

- 361 Conduct a performance test annually to demonstrate compliance with the applicable emission standard while producing MAP. Conduct the performance test according to the procedures in 40 CFR 63 Subpart A and 40 CFR 63.626. Subpart BB. [40 CFR 63.626(a)]  
362 Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in 40 CFR 63.626, except as provided in 40 CFR 63.7(f), in conducting performance tests. Subpart BB. [40 CFR 63.626(b)]  
363 Determine compliance with the applicable total fluorides standards in 40 CFR 63.622 or 63.623 using the methods and procedures in 40 CFR 63.626(c)(1) through (c)(4). Subpart BB. [40 CFR 63.626(c)]

### GRP030 Train A producing DAP

- 364 Conduct a performance test annually to demonstrate compliance with the applicable emission standard while producing DAP. Conduct the performance test according to the procedures in 40 CFR 63 Subpart A and 40 CFR 63.626. Subpart BB. [40 CFR 63.626(a)]  
365 Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in 40 CFR 63.626, except as provided in 40 CFR 63.7(f), in conducting performance tests. Subpart BB. [40 CFR 63.626(b)]

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
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### GRP030 Train A producing DAP

- 366 Determine compliance with the applicable total fluorides standards in 40 CFR 63.622 or 63.623 using the methods and procedures in 40 CFR 63.626(c)(1) through (c)(4).  
Subpart BB. [40 CFR 63.626(c)]

### GRP031 Train B producing MAP

- 367 Conduct a performance test annually to demonstrate compliance with the applicable emission standard while producing MAP. Conduct the performance test according to the procedures in 40 CFR 63 Subpart A and 40 CFR 63.626. Subpart BB. [40 CFR 63.626(a)]  
368 Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in 40 CFR 63.626, except as provided in 40 CFR 63.7(f), in conducting performance tests. Subpart BB. [40 CFR 63.626(b)]  
369 Determine compliance with the applicable total fluorides standards in 40 CFR 63.622 or 63.623 using the methods and procedures in 40 CFR 63.626(c)(1) through (c)(4).  
Subpart BB. [40 CFR 63.626(c)]

### GRP032 Train B producing DAP

- 370 Conduct a performance test annually to demonstrate compliance with the applicable emission standard while producing DAP. Conduct the performance test according to the procedures in 40 CFR 63 Subpart A and 40 CFR 63.626. Subpart BB. [40 CFR 63.626(a)]  
371 Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in 40 CFR 63.626, except as provided in 40 CFR 63.7(f), in conducting performance tests. Subpart BB. [40 CFR 63.626(b)]  
372 Determine compliance with the applicable total fluorides standards in 40 CFR 63.622 or 63.623 using the methods and procedures in 40 CFR 63.626(c)(1) through (c)(4).  
Subpart BB. [40 CFR 63.626(c)]

### GRP033 Train C producing MAP

- 373 Conduct a performance test annually to demonstrate compliance with the applicable emission standard while producing MAP. Conduct the performance test according to the procedures in 40 CFR 63 Subpart A and 40 CFR 63.626. Subpart BB. [40 CFR 63.626(a)]  
374 Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in 40 CFR 63.626, except as provided in 40 CFR 63.7(f), in conducting performance tests. Subpart BB. [40 CFR 63.626(b)]  
375 Determine compliance with the applicable total fluorides standards in 40 CFR 63.622 or 63.623 using the methods and procedures in 40 CFR 63.626(c)(1) through (c)(4).  
Subpart BB. [40 CFR 63.626(c)]

### GRP034 Train C producing DAP

- 376 Conduct a performance test annually to demonstrate compliance with the applicable emission standard while producing DAP. Conduct the performance test according to the procedures in 40 CFR 63 Subpart A and 40 CFR 63.626. Subpart BB. [40 CFR 63.626(a)]  
377 Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in 40 CFR 63.626, except as provided in 40 CFR 63.7(f), in conducting performance tests. Subpart BB. [40 CFR 63.626(b)]  
378 Determine compliance with the applicable total fluorides standards in 40 CFR 63.622 or 63.623 using the methods and procedures in 40 CFR 63.626(c)(1) through (c)(4).  
Subpart BB. [40 CFR 63.626(c)]

### RLP002 A-3 - Carbon Dioxide Regeneration Vent

## SPECIFIC REQUIREMENTS

AI ID: 2425 - Mosaic Fertilizer LLC - Faustina Plant  
Activity Number: PER19960001  
Permit Number: 2560-00021-V0  
Air - Title V Regular Permit Initial

### RLP002 A-3 - Carbon Dioxide Regeneration Vent

379 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

**Louisiana Department of Environmental Quality (LDEQ)**  
**Office of Environmental Services**

**STATEMENT OF BASIS**

**Mosaic Fertilizer, LLC**  
**Faustina Plant**  
**St. James, St. James Parish, Louisiana**  
**Agency Interest Number: 2425**  
**Activity Number: PER19960001**  
**Proposed Permit Number: 2560-00021-V0**

**I. APPLICANT**

**Company:**  
Mosaic Fertilizer, LLC  
7250 Highway 44  
Uncle Sam, LA 70792

**Facility:**  
Mosaic Fertilizer, LLC  
9959 Highway 18  
St. James, LA 70086 Louisiana

30° 5" 10" Latitude, 90° 54' 45" Longitude

**II. FACILITY AND CURRENT PERMIT STATUS**

Mosaic Fertilizer, LLC's Faustina Plant consists of an ammonia plant, two sulfuric acid plants, one phosphoric acid plant, and three units in the granulation plant. A urea plant was shut down in 1999, and a uranium recovery plant was permanently shut down in 1998. The Sodium and Potassium Silicofluoride Plants have not operated since the mid 1990's. Descriptions of the individual processes are provided below:

**AMMONIA PLANT**

The Ammonia Plant is capable of producing up to 1750 tons of ammonia per day. Ammonia is produced by the catalytic reaction of natural gas, steam, and air. In the primary reformer, natural gas and steam are heated to 1500 ° F to produce hydrogen. Air is added to the stream in the secondary reformer to provide nitrogen for the later synthesis of ammonia. Reformer gases, which also contain carbon dioxide and carbon monoxide produced in the primary reformer, are passed to a shift converter to remove these impurities. Carbon monoxide is removed by reaction with steam to produce carbon dioxide. The stream then passes to an absorber system that removes the bulk of the carbon dioxide in the stream. The remaining carbon dioxide was